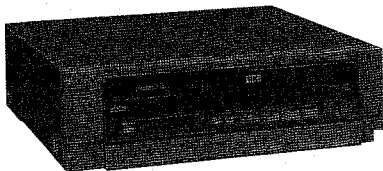


EVO-9500A

SERVICE MANUAL

US Model
Canadian Model



SPECIFICATIONS

System

Video recording system	Rotary two-head flying erase head Herical scanning FM system
Audio recording system	Standard: Rotary head FM system (monaural) PCM: PCM system (2 channels)
Video signal	NTSC color, EIA standards
Usable cassettes	8 mm format video cassettes
Tape speed	Approx. 1.43cm/sec. (SP mode)
Maximum recording/playback time	2 hours (SP mode) (with Sony P6-120MP 8mm video cassette)
Fast-forward and rewind time	Approx. 3 min. (with Sony P6-90MP 8mm video cassette)

Inputs and Outputs

Video input	VIDEO IN (1) BNC connector Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative
S VIDEO input	S VIDEO IN (1) 4-pin mini-DIN Luminance signal: 1 Vp-p, 75 ohms, unbalanced, sync negative Chrominance signal: 0.286 Vp-p, 75 ohms, unbalanced

Video output

VIDEO OUT, BNC connector (1), phono jack (1)

Output signal: 1 Vp-p, 75 ohms, unbalanced, sync negative

S VIDEO output

S VIDEO OUT (1) 4-pin, mini-DIN
Luminance signal: 1 Vp-p, 75 ohms, unbalanced, sync negative

Chrominance signal: 0.286 Vp-p, 75 ohms, unbalanced

Horizontal resolution

Standard system: 240 lines (SP color mode)

Hi8 system: 400 lines

More than 45 dB (Color mode)

Video S/N

Audio Input

AUDIO IN (2) phono jack

Input level: -7.5 dBs

(dBs = 0.775 Vrms)

Input impedance: more than 47 kilohms

Audio output

AUDIO OUT

Stereo output: phono jack (2)

Standard impedance: -7.5 dBs at load impedance

47 kilohms

monaural output: phono jack (1)

Standard impedance: -5 dBs at load impedance 47 kilohms

Output impedance: less than 22 kilohms

- Continued on next page -

Hi8 VIDEO CASSETTE RECORDER
SONY



Frequency response	Standard track: 30Hz-15kHz PCM track: 20Hz-15kHz
Audio S/N	More than 60 dB (SP mode)
Microphone input (monaural)	MIC (1) minijack -65 dBs, for low-impedance microphone
Headphones output	HEADPHONES (1) stereo minijack for headphones
External sync input	VIDEO IN (BNC connector, used also as a video input) input signal: 1 Vp-p, video signal
CONTROL P input	Phono jack (1) Input impedance: 47 kilohms
CONTROL P output	Phono jack (1)

General

Power requirement	AC 120V, 60Hz
AC outlet	Total 400 W max. (unswitched)
Power consumption	25 W
Operating temperature	5°C to 40°C (41°F to 104°F)
Storage temperature	-20°C to +60°C (-4°F to +140°F)
Dimensions	Approx. 355 x 116 x 387 mm (w/h/d) (14 x 4 5/8 x 15 1/4 inches)
Weight	Approx. 6.5 kg (14 lb 5 oz)
Supplied accessory	Cleaning cassette (1)

Accessories not supplied

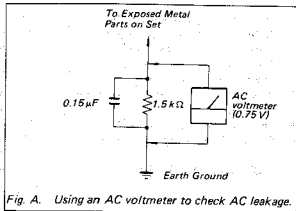
Remote Commander RM-S52 (wireless)
Remote control unit RM-S18 (wired)
Connecting cables
RFU adaptor RFU-S9UCKA

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
6. Check the B+ voltage to see it is at the values specified.
7. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK Δ OR DOTTED LINE WITH MARK Δ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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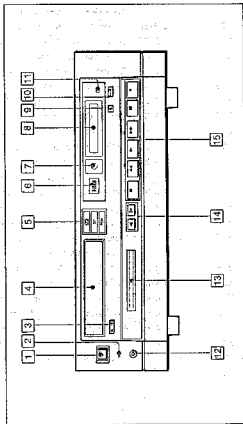
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SECTION 1 GENERAL

Location and Function of Parts and Controls

Front Panel



1 POWER ON/OFF switch and indicator

Lights up when the power is on, and goes out when the power is off.

2 STANDBY indicator

Lights up when the power cord is connected to a wall outlet, and goes out when the power of the VCR is on.

3 EJECT button

Press to remove the cassette.

4 Cassette compartment

5 Indicators

1	Lights up when a cassette is in the cassette compartment.
2	Lights up when the power is on, and goes out when the power is off.
3	Lights up when the tape is in the LP (long play) mode or no signal is recorded on the tape.
4	Lights up when PCM sound is recorded on the tape or during PCM audio recording.
5	Lights up when the tape is played back.

6 H18 indicator

Lights up when the power is on, and goes out when the power is off. It also lights up when the system used in recording cannot be determined.

7 Remote sensor

Point the RM-SSZ Remote Commander (not supplied) here.

8 Tape counter display

Displays the item selected by the TC COUNTER selector.

This section is extracted from instruction manual.

9 TC (time code) COUNTER (see counter selector)

TC	Displays time code. " " indicates no time code is recorded on the tape.
COUNTER	Displays the counter which increases as the tape advances. This display is reset to "0000" when you newly insert a tape. It lights up when you playing and play in the power cord.

10 RESET (counter reset) button

Press to reset the counter to "0000".

11 TIMER REC indicator

Lights up when the TIMER switch is set to REC with the power cord connected to a wall outlet and shows the remaining recording time. It goes out when you using the power cord from a wall outlet.

12 HEADPHONES jack (stereo minijack)

Audio level meters

Recording	Audio recording level of the sound which is recorded on the AUDIO OUTPUT SELECT switch (inside the front panel) is shown. When AUDIO OUTPUT SELECT is set to STD or MIX, the monaural sound being recorded is displayed on both channels even when one of the REC LEVEL controls (L or R) is set to 0.
Playback	Audio playback level of the sound which is selected with the AUDIO OUTPUT SELECT switch is shown.

13 SLOW button

Press for a slow-motion playback.

1	Reverses the picture at 1/5 normal speed. (Enters the stop mode approx. 40 seconds after to prevent damage to the tape.)
2	Advances the picture at 1/5 normal speed.

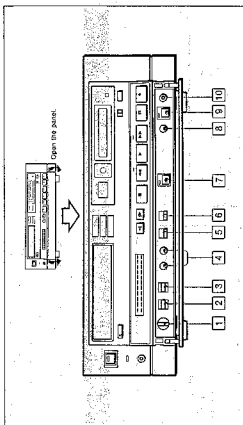
14 Tape transport buttons and indicators

The indicator lights up during the corresponding operation.

1	STOP (no indicator)
2	REV (reverse)
3	PLAY (playback)
4	FF (fast forward)
5	PAUSE
6	REC (recording)

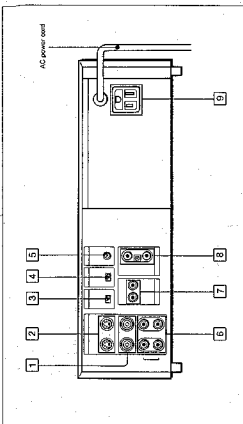
Location and Function of Parts and Controls

Inside the Front Panel



- 1 **PHONE LEVEL** (headphone level) control
- 2 **AUDIO OUTPUT SELECT switch**
 - Set to REC or PLAY to startstop recording or playback at a specified time when an external timer response is used.
 - Set to MON to listen to the output of a video monitor.
 - PCM: To hear the PCM sound only.
 - MIX: To hear the PCM and standard sound mixed.
 - STD: To hear the standard sound only (standard).
- 3 **TIMER switch**
 - Set to REC or PLAY to startstop recording or playback at a specified time when an external timer response is used.
 - Normally set to OFF.
- 4 **REC LEVEL control**
- 5 **AUTO REPEAT switch**
 - Set to ON to repeat playback automatically from the beginning of the selected tape to the end of a recording.
 - Normally set to OFF.
- 6 **INPUT SELECT switch**
 - Select the ordinary video input signal or the S video input signal.
- 7 **8 tap TIME CODE WRITE button and indicator**
 - Press to record the time code on the tape. The indicator blinks during preset time.
 - Indicator blinks during preset time.
 - Indicator blinks during solid recording, the indicator on the button lights.
- 8 **SLOW ADJ. (slow adjust) control**
 - Press to slow down the playback or slow down the slow motion playback.
- 9 **AUDIO DUB (audio dubbing) button and indicator**
 - Press to record additional audio or narration.
- 10 **MIC (microphone) jack (mini-jack)**
 - Connect a microphone with a plug.

Rear Panel



- 1 **VIDEO INPUT (input/output) connections (RNC type)**
- 2 **S VIDEO INPUT (input/output) connections (pin matching)**
 - Accept or supply S video signals. Use a commercially available S VIDEO connecting cable.
- 3 **SYNC INT/EXT (sync signal internal/external) selector**
 - Set to EXT to play back in synchronization with the external source. Normally set to INT.
- 4 **EDIT switch**
- 5 **VIDEO AUDIO OUT (output) jacks (phone type)**
 - Connect a TV without video and audio inputs, use the commercially available RF/VIDEO/AV adapter.
- 6 **CONTROL P INPUT (input/output) jacks (phone type)**
 - Connect the RM-S18 wired remote control unit (not supplied). Also using the CONTROL P connection, the equipment can operate a number of EVO-5000 units simultaneously.
- 7 **AC OUT connections**
 - These supply power to other equipment whose power consumption is 40W or less in total, regardless of whether the POWER switch of this VCR is ON or OFF.
 - Do not connect to equipment whose power consumption is over 40W.
- 8 **VIDEO AUDIO OUT (output) jacks (phone type)**
 - Connect a TV without video and audio inputs, use the commercially available RF/VIDEO/AV adapter.

Playing Back a Tape

Using the Tape Counter

You can switch the 8 mm time code display and the counter display using the TC COUNTER selector as follows:

Item to be displayed	TC COUNTER
8 mm time code recorded on the tape	
Counter for tape travel	

To reset the counter display to "0000"

Press the RESET button. The counter will reset to 0000 at the beginning of the tape, and will count down the content and the counter reading.

What is the time code?

It will be displayed when you set the TC COUNTER selector to TC in the stop, fast forward, or rewind mode, or while playing back a tape without the 8 mm time code.

Monitoring the Picture of a Video Camera

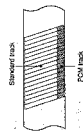
Connect a video camera to the VIDEO (or S-VIDEO) IN. The video camera will start and make the appropriate settings for the picture on the monitor. The picture is automatically switched to that of the camera when the VCR enters the record or stop mode. Press the PAUSE button together with the AUDIO OUTPUT SELECT button (20) to display a "frozen" picture in a public place, for example.

Playing Back an Audio-Dubbed Tape

You can select the monitor sound recorded on the PCM track of the tape, such as narration or music, with the AUDIO OUTPUT SELECT switch.

For recording, see "Audio Dubbing" on page 32.

Audio recording pattern on a video tape



Playing back a stereo-recorded tape

Set the AUDIO OUTPUT SELECT switch to PCM. The stereo sound recorded on the PCM track of the tape. When monitoring the monaural sound, set the switch to STD.

Track to be played back	AUDIO OUTPUT SELECT
PCM only	
PCM and standard, mixed	
Standard only	

When a TV without electronic inputs is connected. Connect your stereo system to this VCR to monitor the stereo sound.

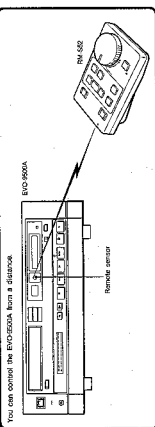
If the sound is not heard or the PCM indicator blinks when you set the AUDIO OUTPUT SELECT switch to PCM, the PCM track may not be recorded. Check the recording mode or a video cassette deck without the PCM function. The PCM track may not be recorded in any instance of the PCM track. When monitoring the monaural sound, set the AUDIO OUTPUT SELECT switch to STD. The PCM indicator may still blink, but it does not affect the sound.

To record the 8 mm time code

See page 24 and 25.

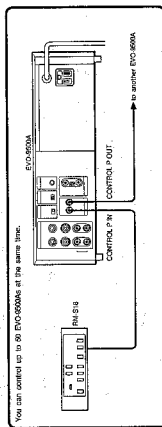
Remote Control Operation

Using the RM-S52 wireless Remote Commander (not supplied)



For details, refer to the instruction manual of the RM-S52.

Using the RM-S18 wired remote control unit (not supplied)



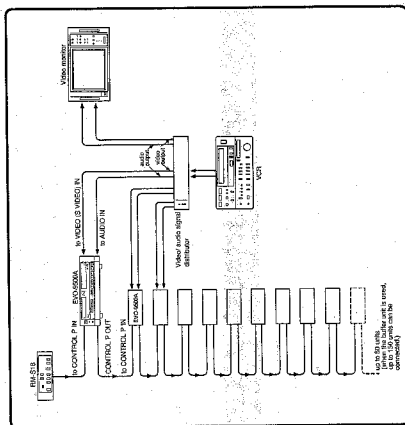
For details, refer to the instruction manual of the RM-S18.

Notes

When the RM-S18 is connected to the CONTROL P IN jack of the EVO-6000A, the EVO-6000A will be controlled by the RM-S18.

Tape Duplication System

You can make a tape duplication system by connecting a number of EVO-6000As with the RM-S18 wired remote. Using this system, you can produce a number of recorded tapes at a time.



Up to 10 units (even the buffer unit is used, 10 units can be connected)

For detailed connection and operation, consult your Sony dealer.

Hi8 (High Eight) Video System

Features of the Hi8 Video System

The 8 mm video system employs a high-grade metal powder tape which allows the video cassette recorder to record a large amount of information and enhance picture quality. The Hi8 video system has been developed, taking advantage of the 8 mm video system. The main characteristics of the Hi8 are as follows.

Super High Quality Picture

The information capacity is a key element for picture improvement. It can be increased by shifting up to the FM carrier frequency range in the Hi8 video system, the FM carrier frequency range is shifted up to 57-77 MHz. This is higher than the 42-54 MHz range of the standard 8 mm video system. Thanks to this, the horizontal resolution is improved to more than 400 lines.

Use of High-Grade Tape Corresponding to the Hi8 Video System

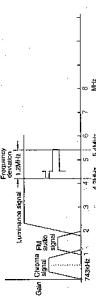
Metal developed tape is ideal for video systems because it has large magnetic energy that allows for high-density, high-grade tape for the Hi8 video system, conferring a wide frequency range to achieve a high-quality video signal for recording/playback.

S-VIDEO (Separated Luminance/Chrominance Signal) Input/Output Connectors

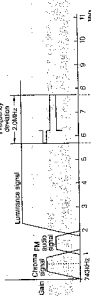
Conventionally, video equipment uses the composite video signal. The Hi8 video system has adopted the Chrominance/Cb signal mixed. The composite video signal is liable to produce interference resulting in picture quality loss. On the contrary, the S-VIDEO signal is separated into the luminance signal and the chrominance signal. Pictures and color blur in the picture are reduced. The Hi8 video system has adopted the S-VIDEO connector so that pictures and color blur in the picture are clearly visible. The S-VIDEO connector also assures an excellent editing quality with minimum picture quality loss.

Difference in Frequency Allocation

Standard video system



Hi8 video system



Hi8 Cassette Tape

The newly developed Hi8 ME and Hi8 MP cassette tapes with high durability feature characteristics best suited for Hi8 video system recording/playback. Hi8 cassettes have a detection hole on the bottom of the cassette shell to automatically set Hi8 VCRs in the Hi8 video system mode for recording.

Cassette	Detection hole A	Detection hole B
Hi8ME Hi8	open	closed
Hi8MP Hi8	closed	open
Standard MP Hi8	closed	closed

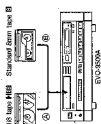
Automatic Switching of the System According to the Cassette Tape

The VCR switches the recording/playback system (Hi8 system or standard system) automatically according to the cassette tape being used.

Recording

When using a Hi8 cassette tape for recording, the VCR senses the detection holes on the cassette shell (pin 1 and 2) and automatically performs the recording in the Hi8 video system. When using a standard film tape, the recording is performed using the standard film video system.

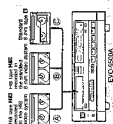
- ④ Recording in the Hi8 video system
- ⑤ Recording in the standard 8 mm video system



Playback

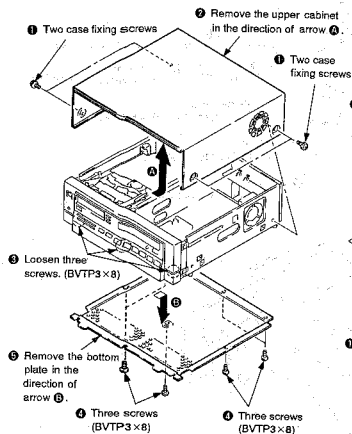
The VCR can detect the system mode used in recording by verifying the recorded signal and plays back the tape in the appropriate mode.

- ④ Playback in the Hi8 video system
- ⑤ Playback in the standard 8 mm video system
- ⑥ Playback in the standard 8 mm video system

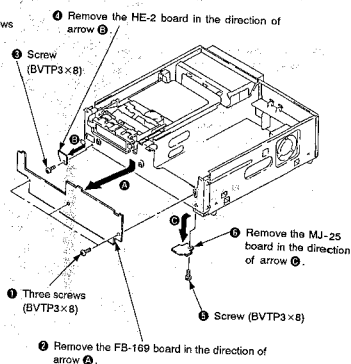


SECTION 2 DISASSEMBLY

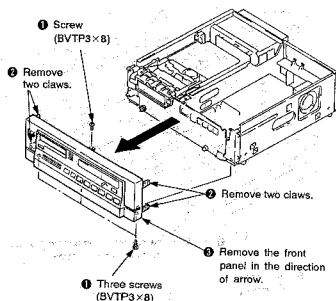
2-1. REMOVAL OF CABINET



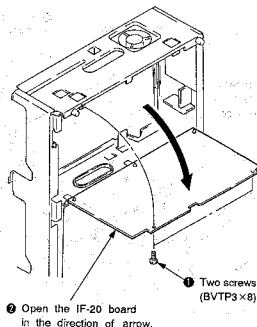
2-3. REMOVAL OF FB-169, HE-2 AND MJ-25 BOARDS



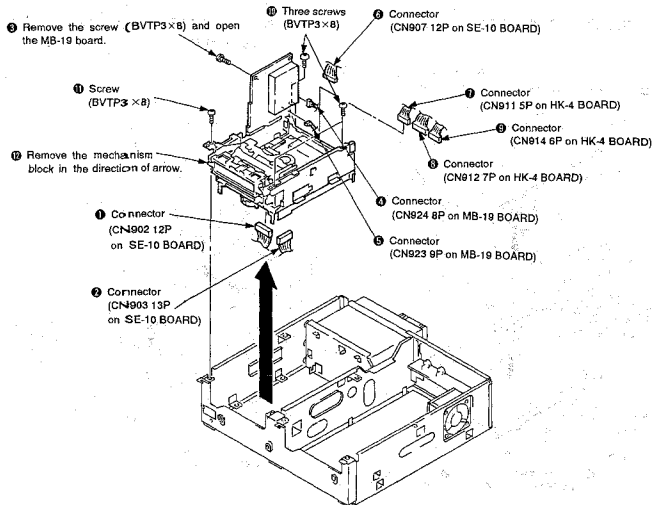
2-2. REMOVAL OF FRONT PANEL



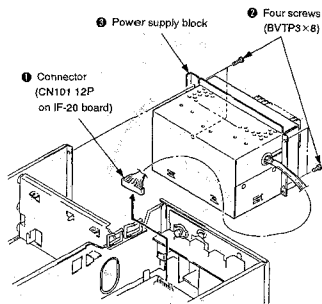
2-4. OPENING OF IF-20 BOARD



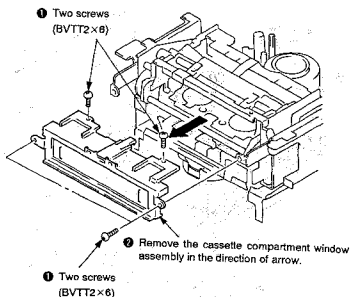
2-5. REMOVAL OF MECHANISM BLOCK



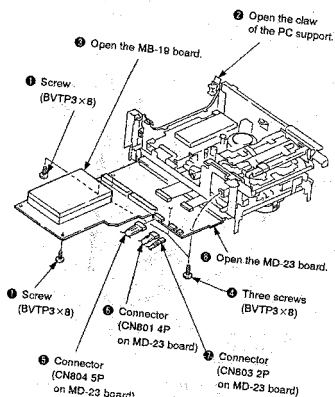
2-6. REMOVAL OF POWER SUPPLY BLOCK



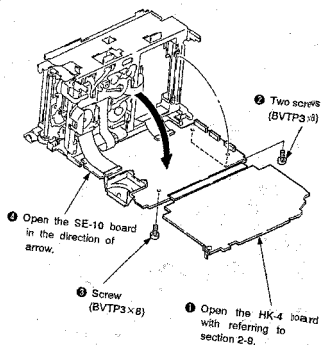
2-7. REMOVAL OF CASSETTE COMPARTMENT WINDOW ASSEMBLY



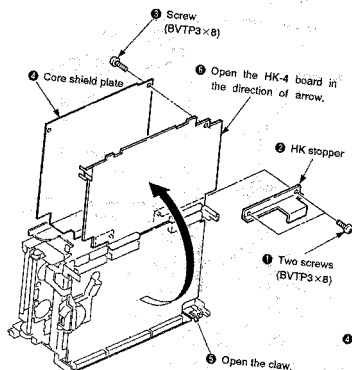
2-8. OPENING OF MB-19 AND MD-23 BOARDS



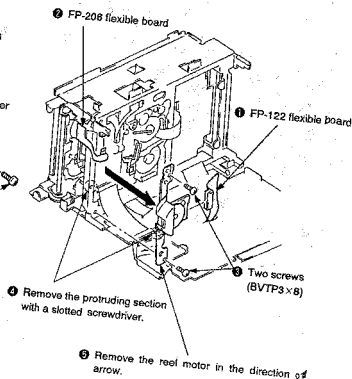
2-10. OPENING OF SE-10 BOARD



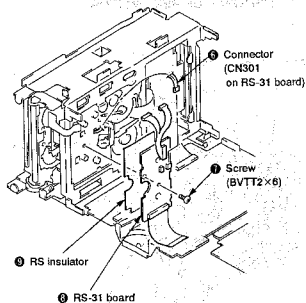
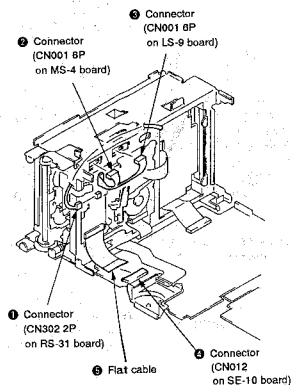
2-9. OPENING OF HK-4 BOARD



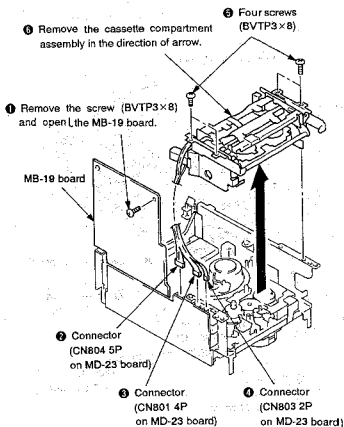
2-11. REMOVAL OF REEL MOTOR



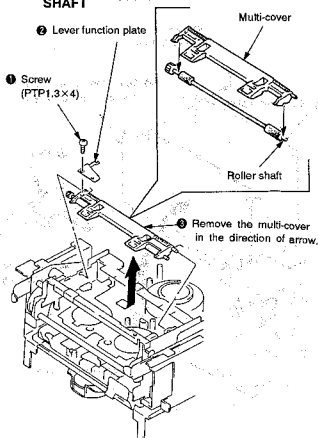
2-12. REMOVAL OF RS-31 BOARD



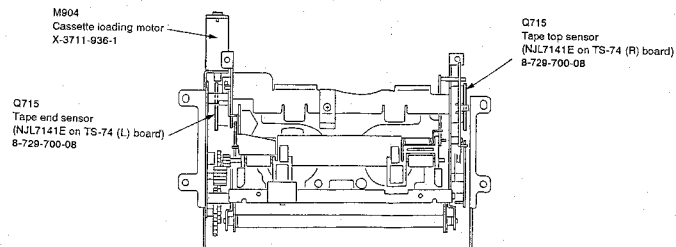
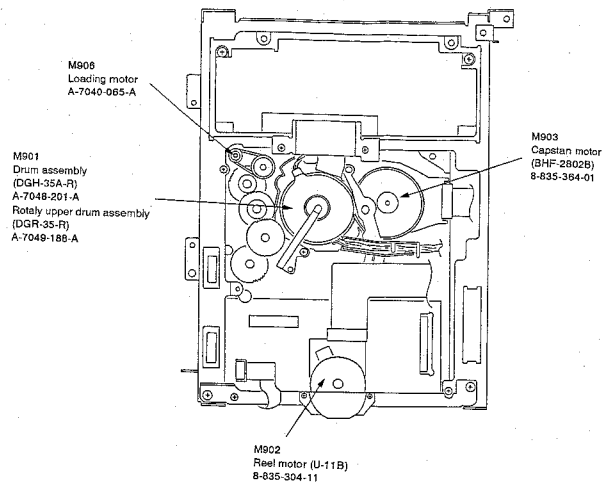
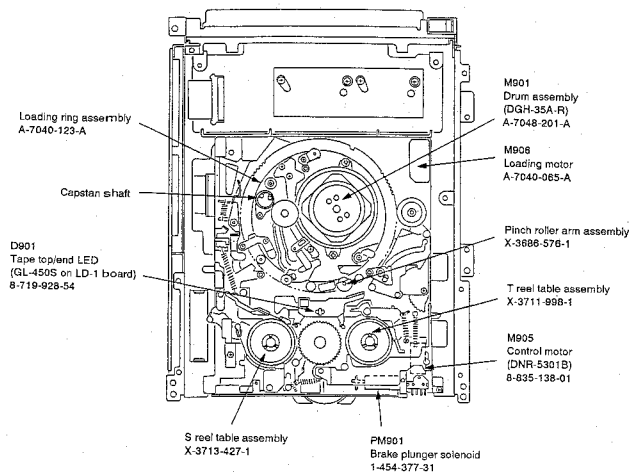
2-13. REMOVAL CASSETTE COMPARTMENT ASSEMBLY



2-14. REMOVAL OF MULTI-COVER AND ROLLER SHAFT

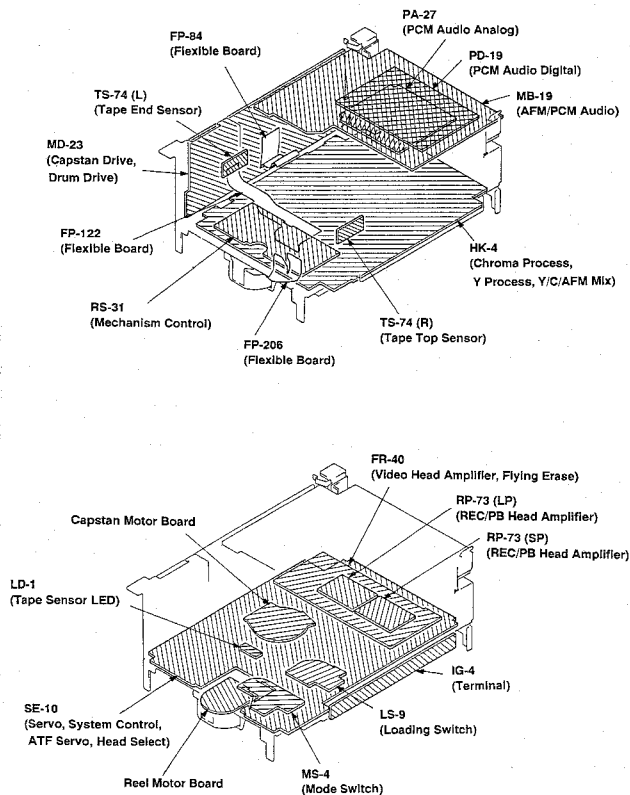
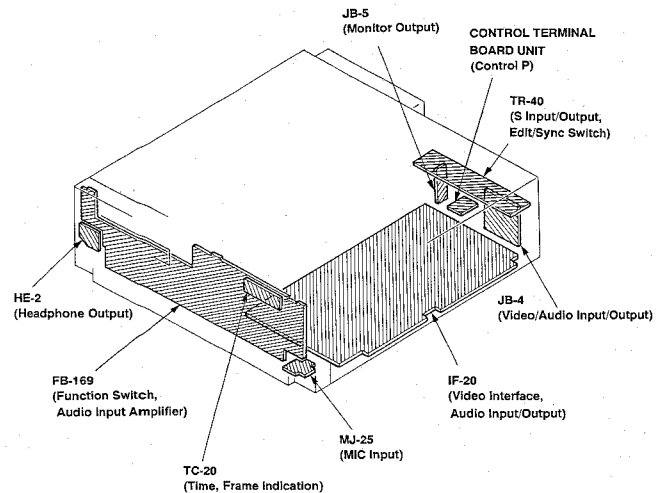


2-15. INTERNAL VIEW

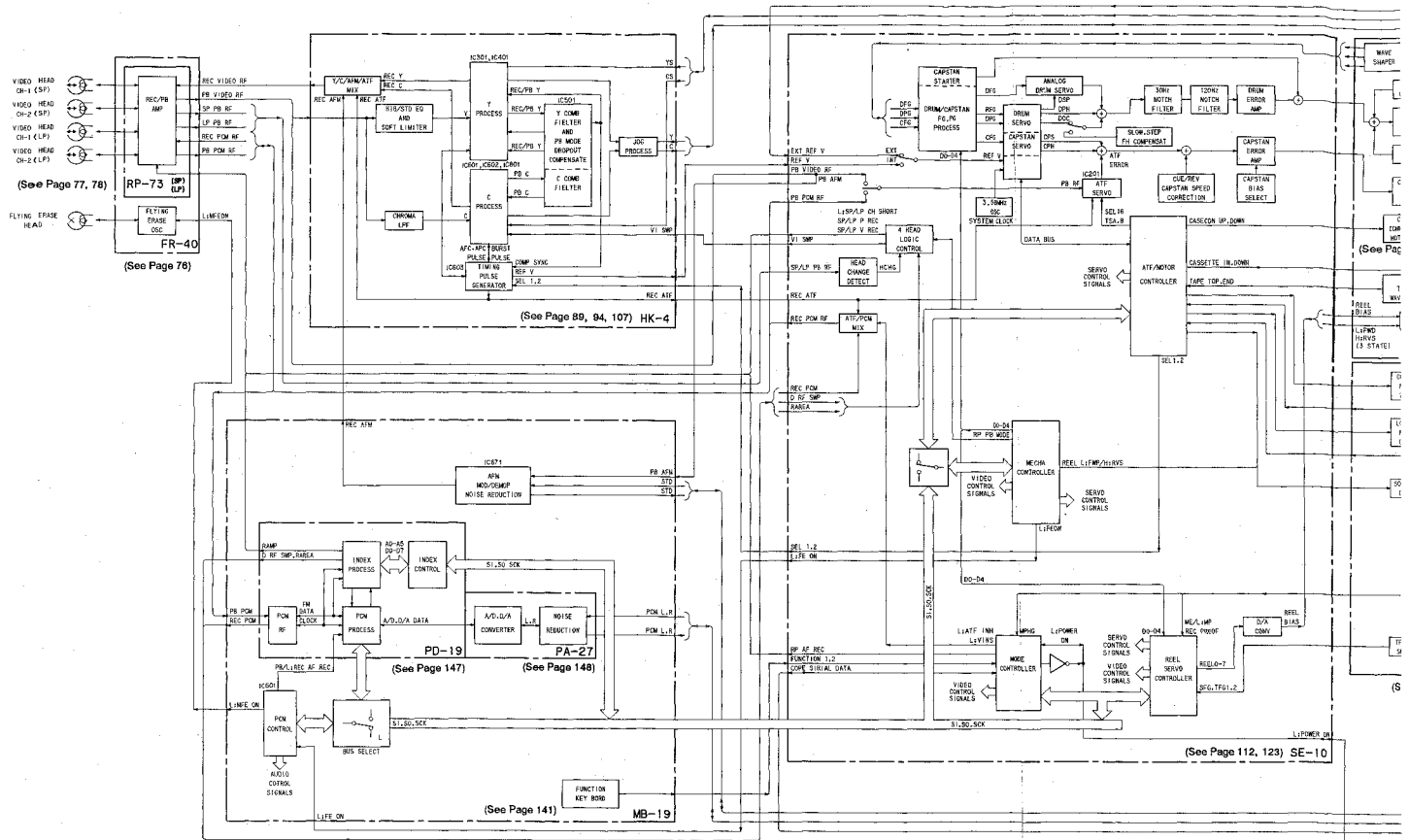


SECTION 3 DIAGRAM

3-1. CIRCUIT BOARDS LOCATION



3-2. OVERALL BLOCK DIAGRAM

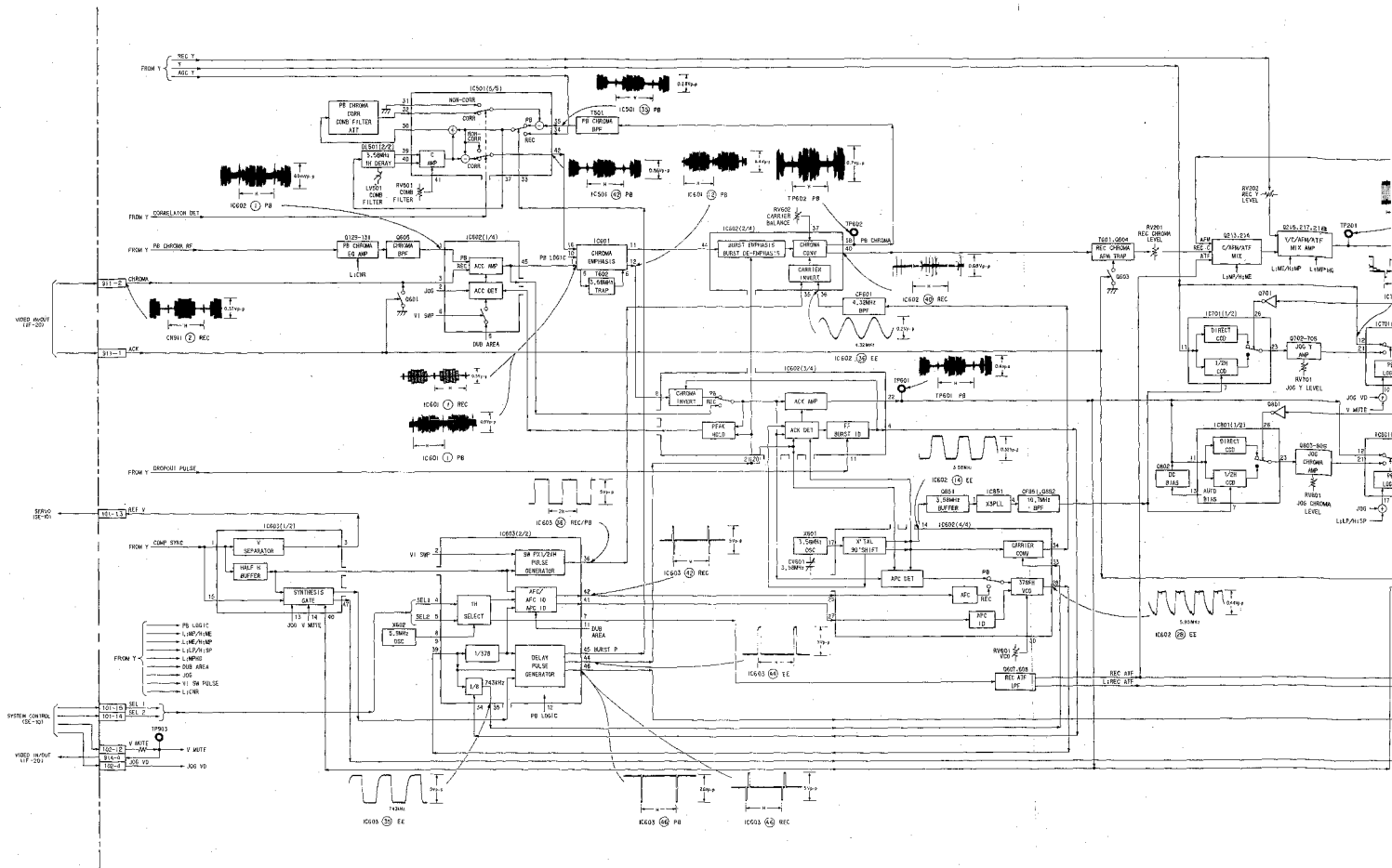


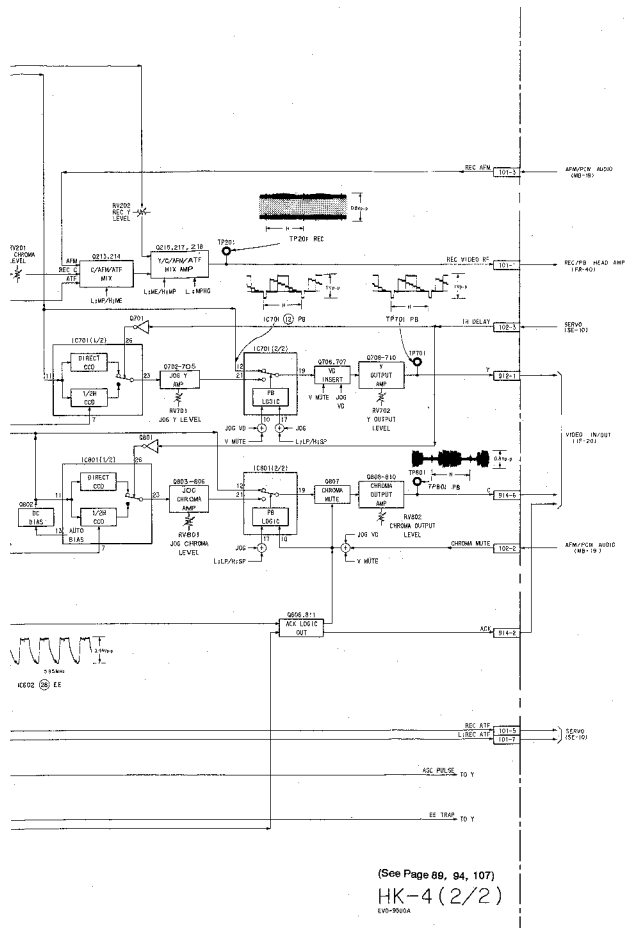


HK-4 (1/2)

(See Page 89, 94, 107)

MA PROCESS BLOCK DIAGRAM

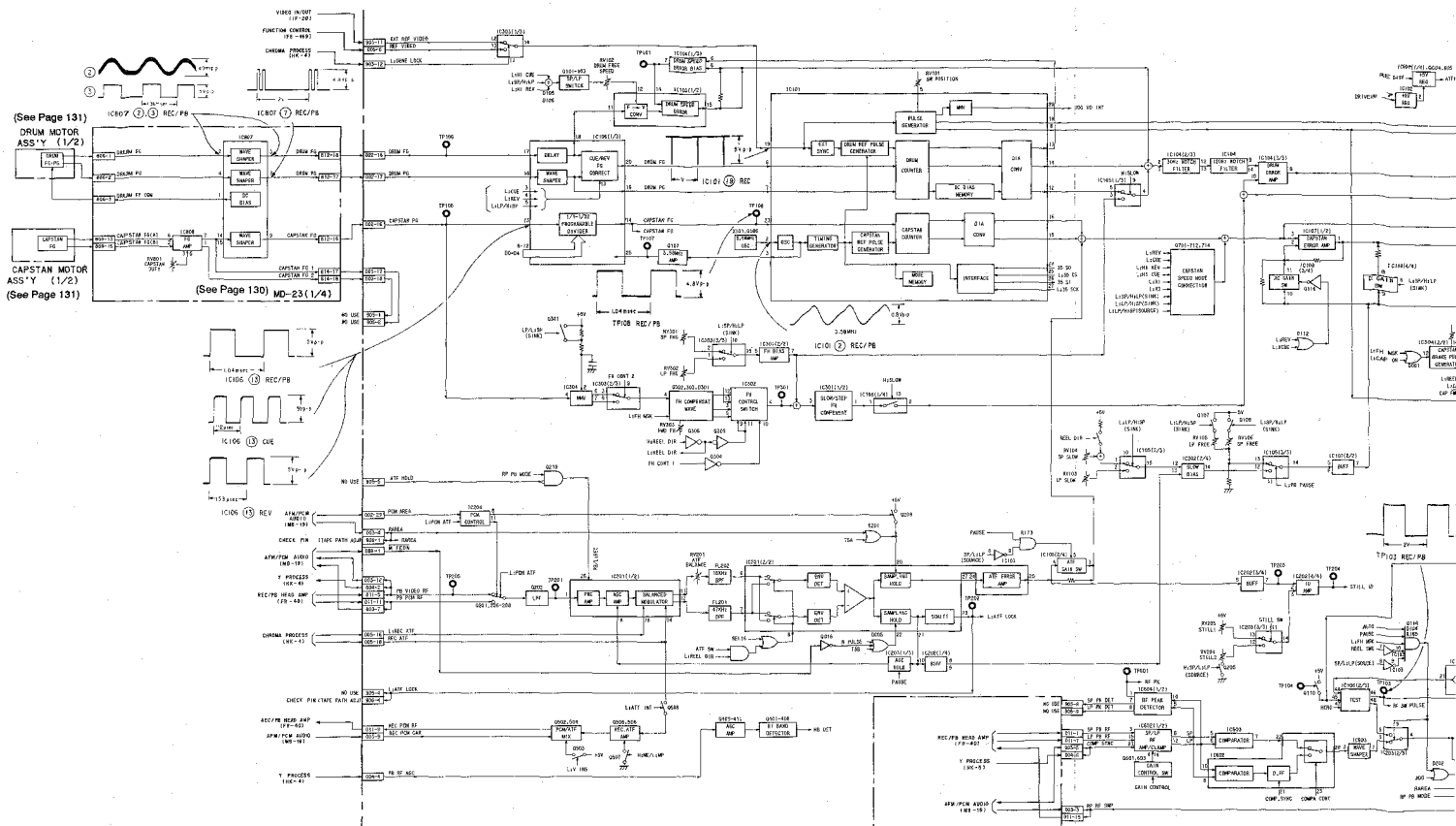


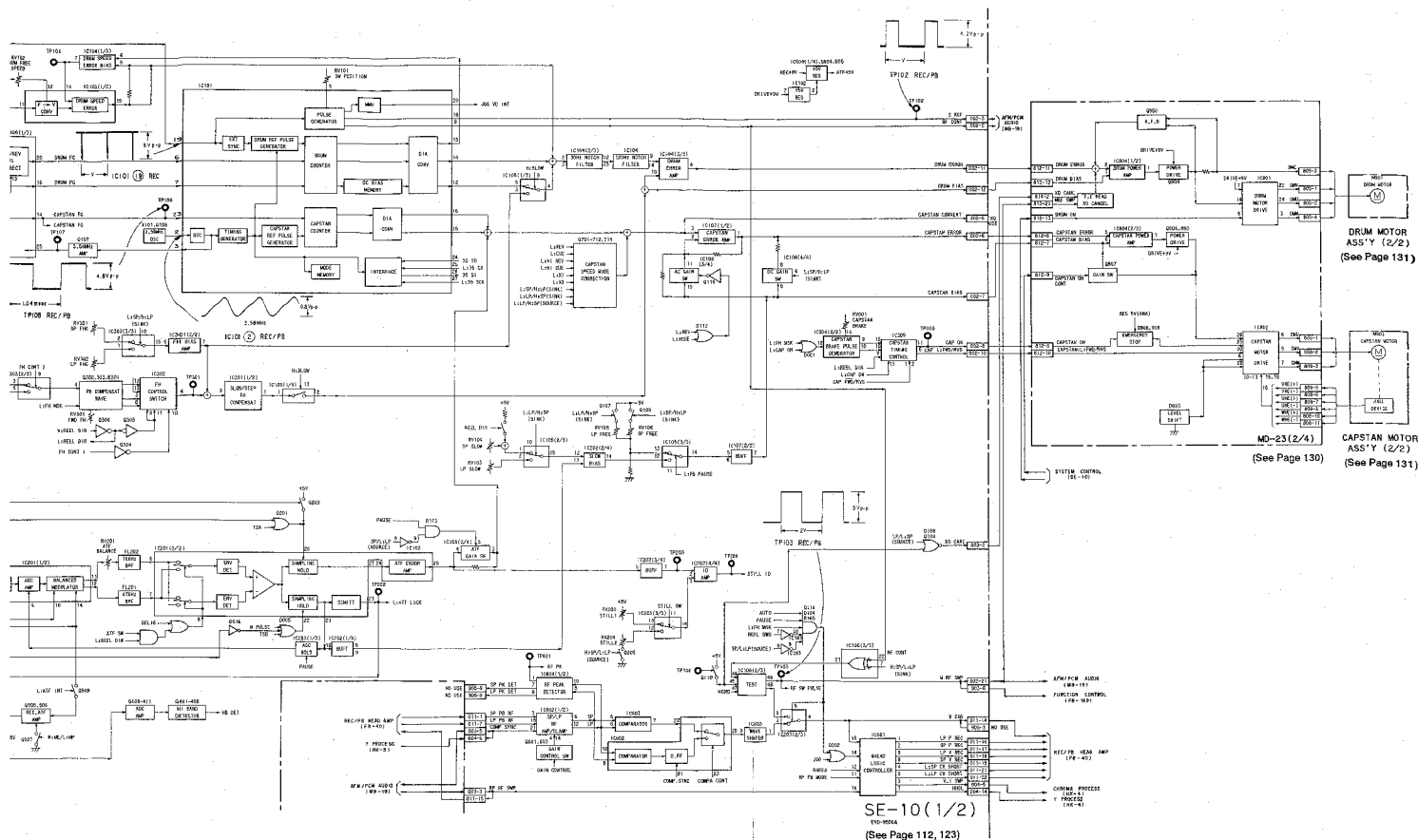


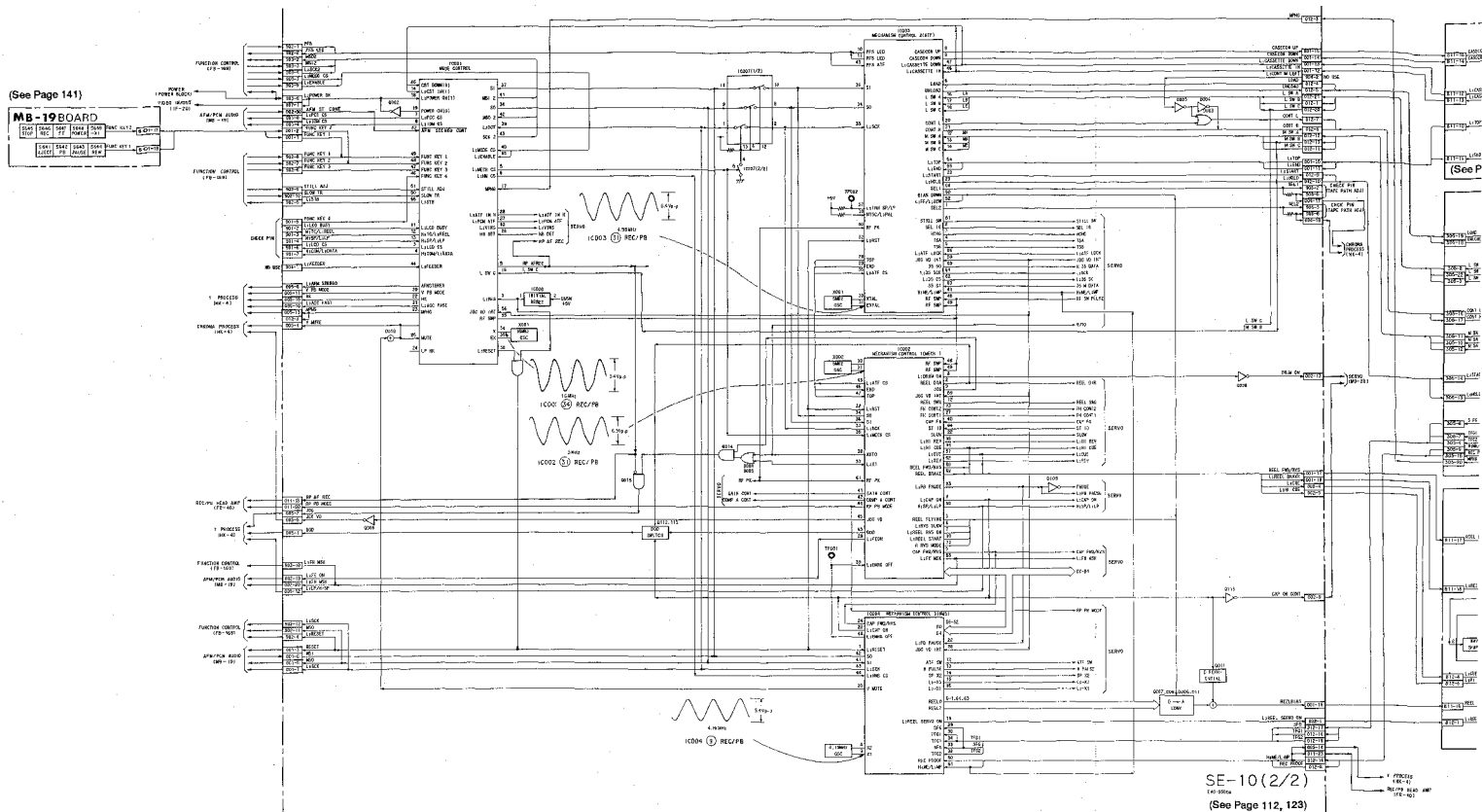


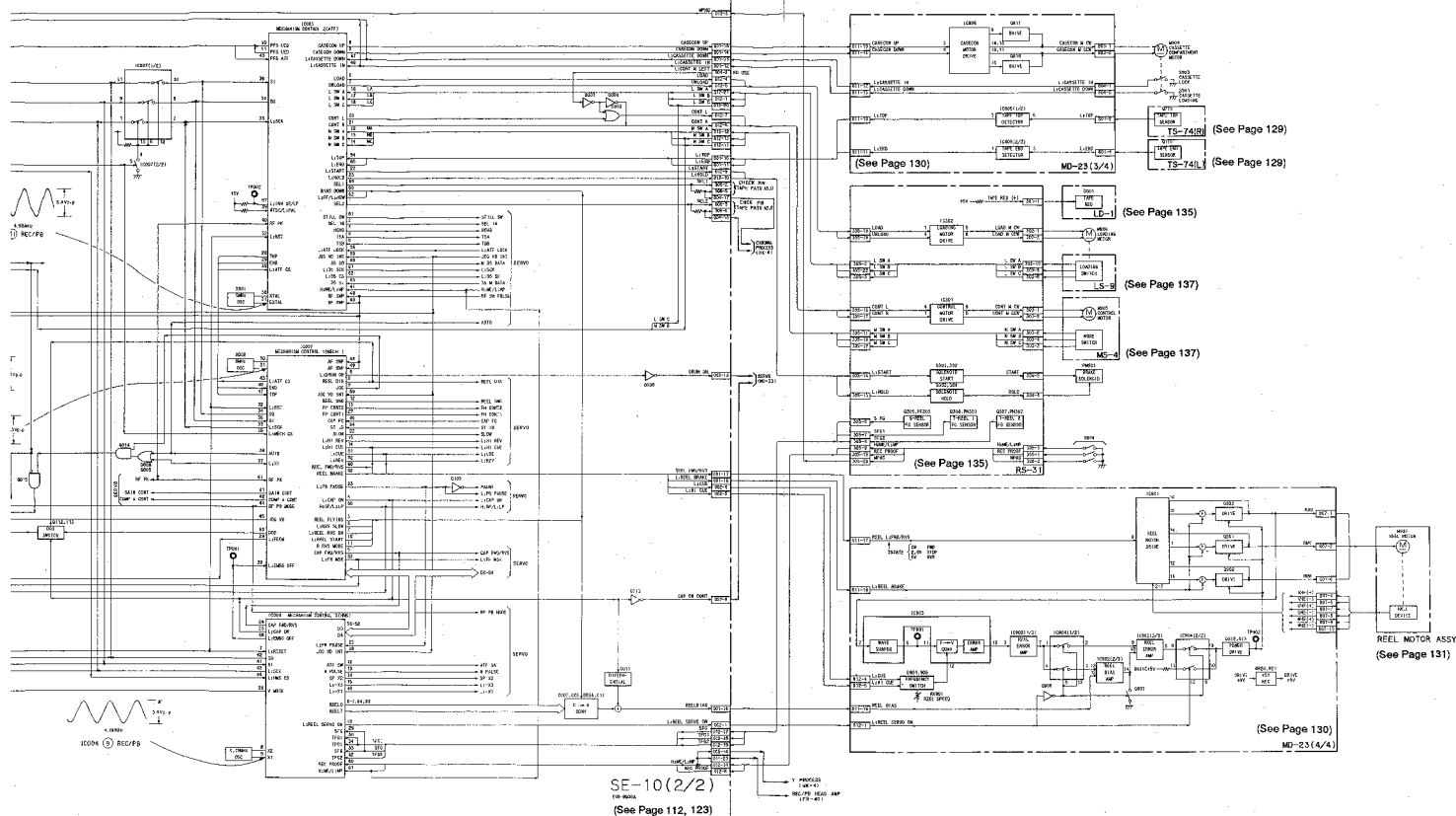


3-7. SERVO BLOCK DIAGRAM









SYSTEM CONTROL — VIDEO BLOCK INTERFACE

MODE		STOP	FF	REW	REC	REC- PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB+ PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)	
SIGNAL	I/O																		PIN No.
	O	Pin ③ of IC002	L	L	L	L	L	H	L	H	H	H	H	H	H	H	H	H	
	O	Pin ④ of IC002	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H	H	
CONT	O	Pin ④ of IC002	H	H	H	H	H	H	H	H*1	H*1	H*1	H*1	H*1	H*1	H*1	H*1	H*1	
PA CONT	O	Pin ④ of IC002	H	H	H	H	H	H	L	L	L	L	L	L	L	L	L	L	
VD	O	Pin ④ of IC002	H					VD pulse		H	VD pulse								
S	O	Pin ④ of IC002	It is "H" when recording or playback in SP mode.																
	O	Pin ④ of IC002	L	L	L	L	L	H	L	L	L	L	H	H	H	H	L	H	
MUTE	O	Pin ④ of IC004	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	
P	O	Pin ④ of CN012	It is "L" when using MP tape or MPHG tape.																

* "L" when LP mode.

SYSTEM CONTROL — SERVO (CAPSTAN MOTOR) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC- PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB- PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
IN	O	Pin ④ of IC002	H	H	H	L	H	L	H	L	H	L	L	L	L	L	L	*1	*1
WD/RVS	O	Pin ⑤ of IC002	L	L	L	L	L	L	L	L	L	L	H	L	H	L	H	*1	*1
D4	O	Pin ⑤ - ⑧ of IC002	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"2"	"2"	"9"	"7"	"1"	"1"
USE	O	Pin ④ of IC002	H	H	H	H	H	H	L	H	L	H	H	H	H	H	H	L	L
	O	Pin ⑤ of IC002	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H
	O	Pin ⑥ of IC002	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L	H	H
	O	Pin ⑦ of IC004	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H	H
	O	Pin ⑧ of IC004	H	H	H	H	H	H	H	H	H	H	H	L	H	H	H	H	H

D4 MSB
D0 LSB
Decimal

se output

SYSTEM CONTROL — SERVO (DRUM MOTOR) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC- PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB- PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
FOR	O	Pin ④ of IC002	H	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
INT2	O	Pin ⑤ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	*1	*1
	O	Pin ⑥ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	H	H
INT1	O	Pin ⑦ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	*1	*1
SR	O	Pin ⑧ of IC002	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*1	*1

se output

REEL D
REEL F
REEL R
REEL R
REEL S
R RVS A
REEL S
REEL R
REEL R
REEL O-
REEL SE

*1. Pulse
*2. Chang
*3. Chang

RP PB M
JOG VD
SEL 2
SEL10
TSR
TSB
M RFSW
SEL 1
ATF SW
N PULSE

*1. Pulse
*2. Pulse

3-12. SYSTEM CONTROL — SERVO (REEL MOTOR) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
REEL DIR	O	Pin ② of IC002	H/L	L	H	L	L	L	L	L	H/L	L	H	L	H	L	H	L	H
REEL FLYING	O	Pin ③ of IC002	Normally "L". "H" pulse when change from STOP to FF/REW mode.																
REEL RVS SLOW	O	Pin ⑤ of IC002	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	L
REEL RVS ON	O	Pin ⑦ of IC002	Normally "H". "L" pulse when change from FORWARD to REVERSE (over - × 1 speed).																
REEL START	O	Pin ⑨ of IC002	Normally "H". "L" pulse when change from STOP to FF/REW mode.																
R RVS MODE	O	Pin ⑪ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
REEL SWG	O	Pin ⑬ of IC002	Normally "L". "H" pulse when change the direction from FORWARD to REVERSE, and vice versa.																
REEL FWD/RVS	O	Pin ⑭ of IC002	2.5V	L	H	L	2.5V	L	2.5V	L	2.5V	L	H	L	H	L	H	"H" Pulse	"L" Pulse
REEL BRK	O	Pin ⑮ of IC002	Normally "H". "L" pulse when change from REC to REC-PAUSE mode.																
REEL 0-7	O	Pin ① - ⑧, ⑩, ⑫ of IC004	"70"	"96"	"96"	"54"	"54"	"54"	"54"	"54"	"70"	"54"	*2	"70"	*2	*3	*3	"70"	"83"
REEL SERVO ON	O	Pin ⑰ of IC004	H	H	H	H	H	H	H	H	H	L	H	L	H	L	H	H	H

REEL 7 MSB
REEL 0 LSB
BCD code

*1. Pulse output

*2. Changes according to the period of SFG

*3. Changes according to the tape speed (SP/LP)


3-13. SYSTEM CONTROL — SERVO (ATF SERVO) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC-PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB-PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
RP PB MODE	O	Pin ② of IC002	H	H	H	L	L	H	H	H	H	H	H	H	H	H	H	H	H
JOG VD INT	I	Pin ③ of IC002, 003	L	Pulse input															
SEL 2	O	Pin ① of IC003	H	H	H	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
SEL16	O	Pin ② of IC003	L	L	L	*2	L	*2	L	*2	L	*2	*2	*2	*2	*2	*2	*2	*2
TSA	O	Pin ④ of IC003	L	L	L	L	L	*2	L	*2	L	*2	*2	*2	*2	L	L	L	L
TSS	O	Pin ⑤ of IC003	L	L	L	L	L	*2	L	*2	L	*2	*2	*2	*2	L	L	L	L
M RFSW PULSE	I	Pin ⑥, ⑦ of IC003	H/L	FIELD sync pulse															
SEL 1	O	Pin ⑧ of IC003	H	H	H	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2	*2
ATF SW	O	Pin ⑨ of IC004	L	L	L	L	L	L	*1	L	*1	L	L	L	L	L	L	*1	*1
N PULSE	O	Pin ⑩ of IC004	L	L	L	L	L	L	*1	L	*1	L	L	L	L	L	L	*1	*1

*1. Pulse output

*2. Pulse output with ATF sequence

SYSTEM CONTROL — SERVO (STILL) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC- PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB- PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
PK	I	Pin ③ of IC002	Pulse input in PB PAUSE mode.																
Q	I	Pin ④ of IC002	Pulse input in PB PAUSE mode.																
IL SW	O	Pin ⑤ of IC003	V duration pulse input ()																

SYSTEM CONTROL — SERVO (HEAD SELECTING) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC- PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB- PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
O	O	Pin ③ of IC002	L	L	L	L	L	L	L	L	L	L	L	L	L	H	H	*1	*1
P	O	Pin ④ of IC002	*H* when record or play back in SP mode.																
IG	O	Pin ③ of IC003	*1	*1	*1	*1	*1	*1	*2	*1	*2	*1	*2	*2	*2	*2	*2	*2	*2

depending upon a tape speed (SP/LP).

ulse output

SYSTEM CONTROL — SERVO (OTHERS) BLOCK INTERFACE

SIGNAL	I/O	MODE	STOP	FF	REW	REC	REC- PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB- PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
		PIN No.																	
2	O	Pin ③ of IC002	L	L	L	L	L	H	H	L	H	H	H	H	H	H	H	H	H
2 FG	I	Pin ④ of IC002	Undefined				*1	Undefined	*1	Undefined	*1	*1	*1	*1	*1	*1	*1	*1	*1
TF LOCK	I	Pin ⑤ of IC003		*1	*1					*2		*2	*2	*2	*2	*1	*1		

ulse output

L" when ATF servo is phase locked.

3-17. SYST

SIGNAL
LOAD
UNLOAD
CASECON UP
CASECON DC
MA-MC
LA-LC
CONTL
CONTR
START
HOLD
CST IN
CC DOWN
TOP
END
SFG
TFG1
TFG2
REC PROOF
ME/MP

*1. Pulse accord

3-17. SYSTEM CONTROL — MD BLOCK INTERFACE







SIGNAL	MODE		STOP	FF	REW	REC	REC- PAUSE	AUDIO DUB	AUDIO DUB PAUSE	PB	PB- PAUSE	× 1	- × 1	× 2	- × 3	CUE (× 9)	REV (- × 7)	SLOW (1/5)	SLOW (- 1/5)
	I/O	PIN No.																	
LOAD	O	Pin ⑤ of IC003	Normally "L". "H" in tape threading.																
UNLOAD	O	Pin ⑦ of IC003	Normally "L". "H" in tape unthreading.																
CASECON UP	O	Pin ⑤ of IC003	Normally "L". "H" in cassette unloading.																
CASECON DOWN	O	Pin ⑤ of IC003	Normally "L". "H" in cassette loading.																
MA-MC	I	Pin ③④ of IC003	"3"	"6"	"6"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"	"1"
LA-LC	I	Pin ③④ of IC003	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"	"3"
CONTL	O	Pin ⑤ of IC003	Normally "L". "H" when change to mechanism mode.																
CONTR	O	Pin ⑤ of IC003	Normally "L". "H" when change to mechanism mode.																
START	O	Pin ⑤ of IC003	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
HOLD	O	Pin ⑤ of IC003	H	L	L	H	H	H	H	H	H	H	H	H	H	H	H	H	H
CS*IN	I	Pin ⑤ of IC003	Normally "L". "H" when cassette is ejected.																
CC DOWN	I	Pin ⑤ of IC003	"H" in eject condition. "L" when cassette compartment comes down.																
TDP	I	Pin ⑤ of IC003	Normally "H". "L" at tape top. } When both signals are "H", it is judged that the cassette is loaded. When "L", it is judged that the cassette is unloaded.																
END	I	Pin ⑤ of IC003																	
SFG	I	Pin ③④ of IC004	Undefined	* 1	* 1	* 1	Undefined	* 1	Undefined	* 1	Undefined	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
TFG1	I	Pin ③④ of IC004	Undefined	* 1	* 1	* 1	Undefined	* 1	Undefined	* 1	Undefined	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
TFG2	I	Pin ③④ of IC004	Undefined	* 1	* 1	* 1	Undefined	* 1	Undefined	* 1	Undefined	* 1	* 1	* 1	* 1	* 1	* 1	* 1	* 1
REC PROOF	I	Pin ⑤ of IC004	"L" when recording enable cassette tape is inserted.																
ME/MP	I	Pin ⑤ of IC004	"L" when MP tape or MPHG tape is used.																



MA MSB
MC LSB
Decimal

LA MSB
LC LSB
Decimal

*1. Pulse according to reel rotation

3-18. MODE CONTROL MICROCOMPUTER — PERIPHERAL CIRCUIT INTERFACE (IC001 (CXP80116) on SE-10 board)

Signal	I/O	PIN No.	Input/Output level
—		1	
—		2	
LCD CS	O	3	Connect to check pin. Pulse train of V interval. ()
COM/DATA	O	4	Connect to check pin. Pulse train of V interval. ()
MECH CS	O	5	Chip select signal for mechanism control. Pulse train of V interval. ()
REEL CS	O	6	Chip select signal for reel control. Pulse train of V interval. ()
PCM CS	O	7	Chip select signal for PCM microcomputer. Pulse train of V interval. ()
IDM CS	O	8	Chip select signal for PCM microcomputer. Pulse train of V interval. ()
RP AFREC	O	9	"H" in AUDIO DUB Mode.
VINS	O	10	Normally "H". Video insert signal.
LCD BSUY	I	11	Connect to check pin.
T.C / REEL	O	12	Connect to check pin.
SP/FP SW	I	13	Connect to check pin.
CASSETE IN	I	14	"L" when cassette is inserted.
CCDOWN	I	15	"L" when cassette compartment comes down.
L SW C	I	16	"H" Loading switch input.
HG SW	I	17	MPHG tape detection input. "L" when MP or ME cassette is inserted.
POWER ON(I)	I	18	"L" when power is on.
POWER ON(O)	O	19	"H" when power is on.
V FB MODE	O	20	"H" when video circuit is in playback mode.
AGC FAST	O	21	Normally "L".
HK	O	22	"H" when Hi8 cassette is inserted.
MPHG	O	23	"H" when MPHG cassette is inserted.
LPHK		24	Not used.
MUTE(I)	I	25	Normally "L". "H" when change the mode from STOP to PB.
HB DET	I	26	"L" when playback the cassette other than for Hi8.
PCMATE	O	27	Normally "H".
ATF INH	O	28	Normally "H".
AFM STEREO V CONT	O	29	"H" in normal playback. "L" in record.
RESET	O	30	Reset output. "L" in reset.
MP	I	31	Microprocessor mode select terminal-not select. Connect to GND.
RESET(I)	I	32	Reset output. "L" in reset.
Vss		33	Connect to GND.
XTAL	O	34	
EXTAL	I	35	Crystal oscillator for system clock connection terminal. Oscillating at 16MHz.
—		36	
MSI	I	37	Serial data input terminal.
MSO	O	38	Not used.
SCR	I	39	Not used.
MODE CS	I	40	Chip select signal to IC001 on the FB-169 board. Pulse train of V interval.

Signal	I/O	PIN No.	Input/Output level
MSI2	I	41	Communication signal between IC001 (Mode controller) on the FB-169. Pulse train of V interval.
MSO2	O	42	Communication signal between IC001 (Mode controller) on the FB-169. Pulse train of V interval.
SCK2	O	43	Communication signal between IC001 (Mode controller) on the FB-169. Pulse train of V interval.
FEEDER	I	44	Not used.
TEST	I	45	Not used. Fix to "H" level.
FUNC KEY4	I	46	Not used.
FUNC KEY3	I	47	Not used.
FUNC KEY2	I	48	Not used.
FUNC KEY1	I	49	Not used.
SLOW TR	I	50	SLOW ADJ input. Voltage according to SLOW ADJ control position. (0-5Vdc)
STILL ADJ	I	51	STILL ADJ input. Voltage according to STILL ADJ control position. (0-5Vdc)
AVss		52	Connect to GND.
AVREF	I	53	Connect to UNSW5V.
AVDD	I	54	Connect to UNSW5V.
SW PLS	I	55	RF SW PULSE input. Pulse train of 2V interval. ()
JOG VD INT	I	56	JOG VD input for digital servo IC (IC101 20035). Interrupt signal for microcomputer. Pulse train of V interval.
AFM STEREO CONT(I)	I	57	Not used. Fix to "H" level.
—		58	
—		59	
—		60	
—		61	
—		62	
—		63	
—		64	
ENABLE	I	65	Communication signal to IC001 (Mode controller) on the FB-169 board. Pulse train of V interval. ()
SF STB	O	66	Not used.
—		67	
—		68	
NT/PAL	I	69	Fix to "H" level.
INTD	I	70	Fix to "H" level.
NMI	I	71	Fix to "H" level.
VDD		72	Connect to UNSW5V.
Vss		73	Connect to GND.
Vref		74	Connect to UNSW5V.
—		75	
—		76	
—		77	
—		78	
—		79	
—		80	

3-19. SYSTEM CONTROL — PCM AUDIO BLOCK INTERFACE

Signal	I/O	PIN No.	Input/Output level
FE ON	O	Pin ② of IC002	Normally "H". "L" in recording or AUDIO DUB.
FH MASK	O	Pin ③ of IC002	"L" pulse during slow playback. "H" in other playback modes.

3-20. SERVO — VIDEO BLOCK INTERFACE

Signal	I/O	PIN No.	Input/Output level
LP PCM REC	O	Pin ① of IC601	Normally "L". "H" pulse of V period in LP mode recording (including AUDIO DUB).
SP PCM REC	O	Pin ② of IC601	Normally "L". "H" pulse of V period in SP mode recording (including AUDIO DUB).
VI SWP	O	Pin ③ of IC601	2V period 50% duty pulse.
SP CH SHORT	O	Pin ④ of IC601	Normally "H". "L" in LP recording/playback mode.
LP CH SHORT	O	Pin ⑤ of IC601	Normally "L". "H" in LP recording/playback mode.
HH DL	O	Pin ⑦ of IC601	Normally "H". Pulse of variable speed playback.
SP VIDEO REC	O	Pin ⑧ of IC601	Normally "L". "H" in SP recording mode.
LP VIDEO REC	O	Pin ⑨ of IC601	Normally "L". "H" in LP recording mode.
COMP SYNC	I	Pin ⑤ of CN004	Positive composite sync signal.
REF V	I	Pin ⑥ of CN005	"L" pulse of V interval.
H CHG	O	Pin ⑩ of CN001	"H" in SP recording/playback mode. "L" in LP recording/playback mode. Variable speed playback pulse.

3-21. PCM AUDIO — VIDEO BLOCK INTERFACE

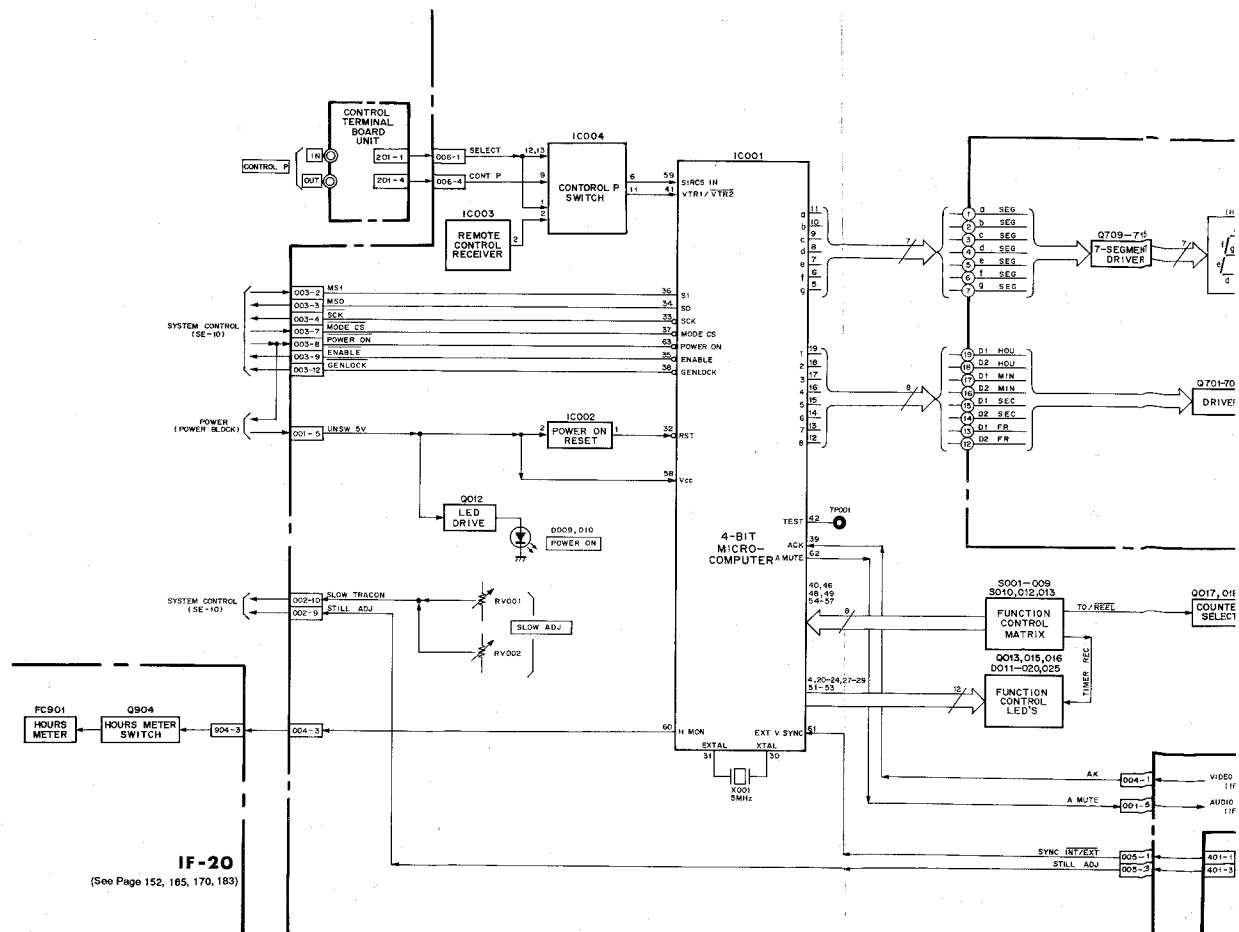
Signal	I/O	PIN No.	Input/Output level
M FE ON	O	Pin ① of IC601	Normally "H". "L" in recording. "L" pulse of 2V period in AUDIO DUB.
RF AFTER REC	O	Pin ② of IC601	Normally "L". "H" in AUDIO DUB.
D RF SWP (RP RF SWP)	O	Pin ③ of PD-19 board	2V period 50% duty pulse.
RAMP	O	Pin ④ of PD-19 board	Normally "L". "H" in AUDIO DUB. ("H" pulse of V interval)
C MUTE	O	Pin ⑤ of PD-19 board	Normally "L". "H" in AUDIO DUB. ("H" pulse of V interval)
HD INSERT	O	Pin ⑥ of PD-19 board	Normally "L". "H" pulse of H period in AUDIO DUB. ("H" Pulse of H interval)
AFTER REC MASC	O	Pin ⑦ of PD-19 board	Normally "L". "H" in AUDIO DUB. ("H" pulse of V interval)

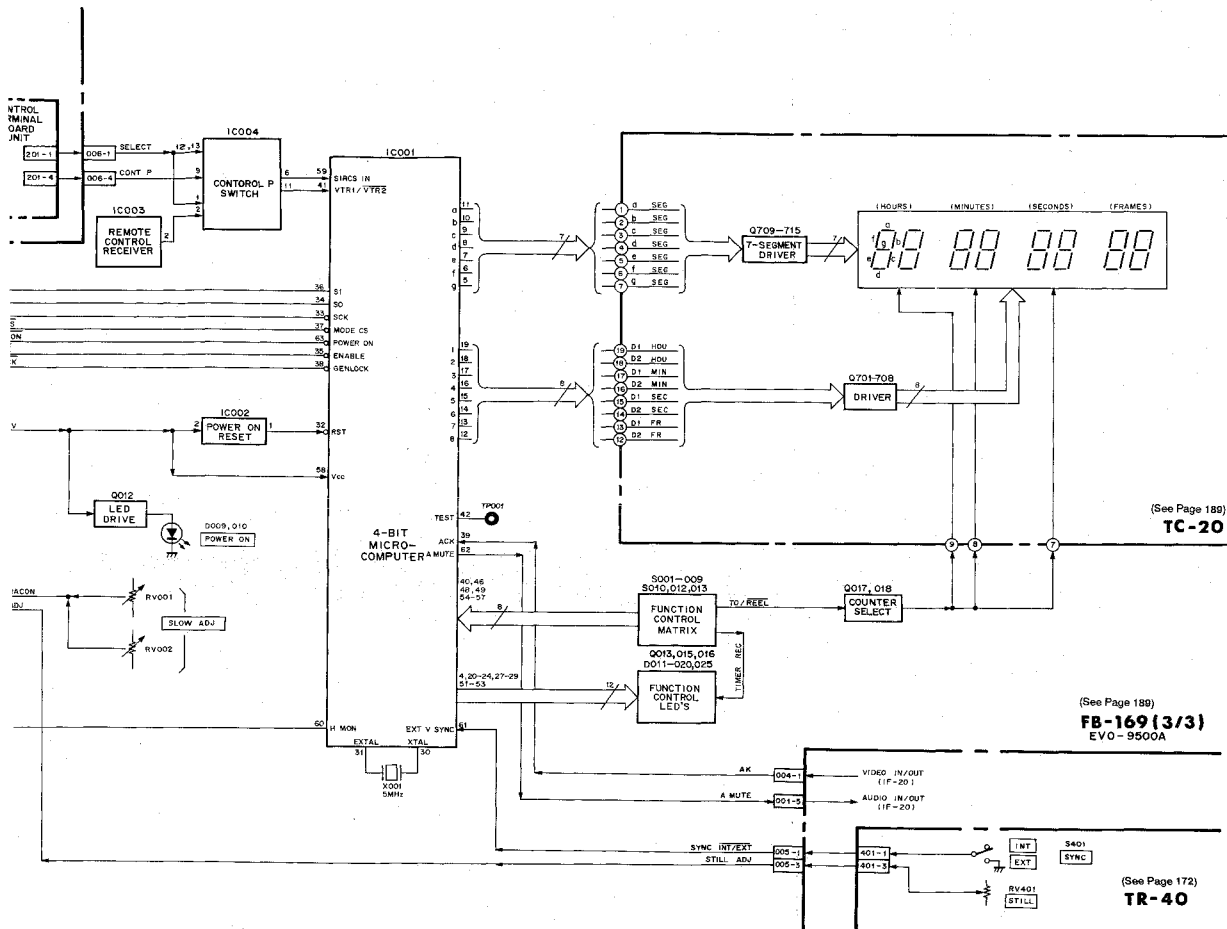
3-22. PCM AUDIO — SERVO BLOCK INTERFACE

Signal	I/O	PIN No.	Input/Output level
RF CONT	I	Pin ② of IC601	2V period 50% duty pulse.
MS REF	I	Pin ③ of RD-19 board	"H" pulse of V period.
R AREA	O	Pin ④ of RD-19 board	Normally "L". "H" pulse of V period in record (including AUDIO DUB).
D RF SWP	O	Pin ⑤ of RD-19 board	2V period 50% duty pulse.
RF AREA	O	Pin ⑥ of RD-19 board	Normally "L". "H" pulse of V period in record (including AUDIO DUB).
RF CONT SWP	I	Pin ⑦ of RD-19 board	2V period 50% duty pulse.

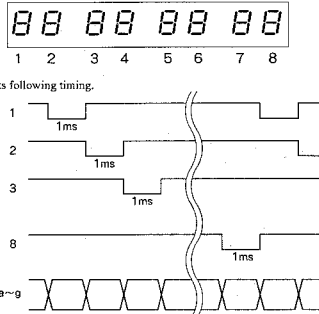
3-23. PCM AUDIO — AUDIO BLOCK INTERFACE

Signal	I/O	PIN No.	Input/Output level
MONO/STE OUT	O	Pin ① of IC601	Normally "L". "H" when monaural PCM audio signal is played back.
MONO/STE IN	I	Pin ② of IC601	Normally "L". Goes to "H" in microphone input or monaural PCM audio signal is played back by player.
PCM MUTE	O	Pin ③ of IC601	"H" when PCM audio signal can not be played back or at the mode transition.
AFM REC/PB	O	Pin ④ of IC601	Normally "H". "L" in playback (including variable speed playback).
AFM MUTE	O	Pin ⑤ of IC601	Normally "L". "H" in the mode transition.
AUEE PORT	O	Pin ⑥ of IC601	Normally "L". "H" in playback (including variable speed playback).
MODE	O	Pin ⑦ of RD-19 board	Normally "L". "H" in playback (including variable speed playback).





3-25. TIMER MICROCOMPUTER (IC001 (CXP5046) on FB-169 board) INTERFACE

Signal name	I/O	PIN No.	Function
—	O	1	Not used.
—	O	2	
—	O	3	
AU DUB	O	4	DUB LED Control signal. H : LED ON L : LED OFF
g	O	5	Control signal for each segment of 7-segment LED. H : LED ON L : LED OFF
f	O	6	
e	O	7	
d	O	8	
c	O	9	
b	O	10	
a	O	11	
8	O	12	ON/OFF control signal for each segment of 7-segment LED. H : LED OFF L : LED ON
7	O	13	
6	O	14	It works following timing. 
5	O	15	
4	O	16	
3	O	17	
2	O	18	
1	O	19	
LP LED	O	20	Not used.
SP LED	O	21	SP LED control signal. L : LED ON H : LED OFF
PCM LED	O	22	PCM LED control signal. L : LED ON H : LED OFF
CIN LED	O	23	CASSETTE-IN LED control signal. L : LED ON H : LED OFF
PAUSE LED	O	24	PAUSE LED control signal.GND. L : LED ON H : LED OFF
GND	O	25	GND

Signal name	I/O	PIN No.	Function
Vcc	O	26	UNSWSV.
FF LED	O	27	FF LED control signal. L : LED ON H : LED OFF
PLAY LED	O	28	PLAY LED control signal. L : LED ON H : LED OFF
REW LED	O	29	REW LED control signal. L : LED ON H : LED OFF
		30	5MHz Oscillation.
		31	5MHz Oscillation.
RESET	I	32	System reset input terminal.
SCK	O	33	Communication line to a mode control microcomputer (IC001/SE-10board) inside the Core-deck. Full-duplex serial data of 24-byte can be transmitted by 5-bit data. (See Fig.3-1)
SO	O	34	
ENABLE	I	35	
SI	I	36	
MODE CS	O	37	
GENLOCK	I	38	Sync control signal of core-deck. When it is "L", phase is locked to V SYNC input from external device, forcibly. Actually, Pin 61 is "L" level and sync is locked with external device when the mode is playback or ×1 mode.
ACK	I	39	Burst existence signal. This signal is used for detecting the video signal existence. H : Blank L : Video signal exist
TC/REEL	I	40	Selection signal to display the time code or reel counter on the 8-digit 7-segment LED. H : Time code L : Reel counter
VTRI/I	I	41	Sirx category code selection signal input to pin 59. H : Receive VTR I L : Receive VTR II
TEST	I	42	"L" in TEST mode.
PRINTER	I	43	"L" in Printer. Not used.
PRG INC	I	44	Control signal to increment a chapter number, when the printer has been used. Not used.
—	—	45	Not used.
AUTO REPEAT	I	46	Switching signal to AUTO REPEAT mode. AUTO REPEAT is carried out when the ACK at pin 39 is "L".
AUTO PB	I	47	Not used.
TIMER PB	I	48	Switching signal for automatic playback when the power is turned ON. Automatic playback is carried out when it is "L".
TIMER REC	I	49	Switching signal for automatic recording when the power is turned ON. When it is set to "L", unit is set into the record mode by turning the power ON.
J/S LED	O	50	Not used.
EJECT LED	O	51	EJECT LED control signal. L : LED ON H : LED OFF

Signal name	Function
HB	
REC	
KI	
KI	
KI	
KI	
V	
SIRX	
HM	
INT	
A M	
POW	
External	
ENABLE	
MODE CS	
SCK	
Ext. micro output	
SI	
SO	
ta :	
tb :	
td :	
te :	

Signal name	I/O	PIN No.	Function
Vcc	O	26	UNSW5V.
FF LED	O	27	FF LED control signal. L : LED ON H : LED OFF
PLAY LED	O	28	PLAY LED control signal. L : LED ON H : LED OFF
REW LED	O	29	REW LED control signal. L : LED ON H : LED OFF
		30	5MHz Oscillation.
		31	5MHz Oscillation.
RESET	I	32	System reset input terminal.
SCK	O	33	
SO	O	34	Communication line to a mode control microcomputer (IC001/SE-10board) inside the Core-deck.
ENABLE	I	35	Full-duplex serial data of 24-byte can be transmitted by 5-bit data.
SI	I	36	(See Fig.3-1)
MODE CS	O	37	
GENLOCK	I	38	Sync control signal of core-deck. When it is "L", phase is locked to V SYNC input from external device, forcibly. Actually, Pin 61 is "L" level and sync is locked with external device when the mode is playback or $\times 1$ mode.
ACK	I	39	Burst existence signal. This signal is used for detecting the video signal existence. H : Blank L : Video signal exist
TC/REEL	I	40	Selection signal to display the time code or reel counter on the 8-digit 7-segment LED. H : Time code L : Reel counter
VTRI/I	I	41	Sircs category code selection signal input to pin 59. H : Receive VTR I L : Receive VTR II
TEST	I	42	"L" in TEST mode.
PRINTER	I	43	"L" in Printer. Not used.
PRG INC	I	44	Control signal to increment a chapter number, when the printer has been used. Not used.
		45	Not used.
AUTO REPEAT	I	46	Switching signal to AUTO REPEAT mode. AUTO REPEAT is carried out when the ACK at pin 39 is "L".
AUTO PB	I	47	Not used.
TIMER PB	I	48	Switching signal for automatic playback when the power is turned ON. Automatic playback is carried out when it is "L".
TIMER REC	I	49	Switching signal for automatic recording when the power is turned ON. When it is set to "L", unit is set into the record mode by turning the power ON.
J/S LED	O	50	Not used.
EJECT LED	O	51	EJECT LED control signal. L : LED ON H : LED OFF

Signal name	I/O	PIN No.	Function
H8 LED	O	52	H8 LED control signal. L : LED ON H : LED OFF
REC LED	O	53	REC LED control signal. L : LED ON H : LED OFF
KEY1	I	54	A/D port for KEY Detection. DUB, $+1/5$, $-1/5$
KEY2	I	55	A/D port for KEY Detection. POWER, REW, RESET
KEY3	I	56	A/D port for KEY Detection. EJECT, PLAY, PAUSE
KEY4	I	57	A/D port for KEY Detection. STOP, REC, FF
Vcc		58	UNSW5V.
SIRCS IN	I	59	SIRCS Signal input terminal.
HMON	O	60	Control signal for the hours meter. It goes to "L" during rotating the drum based on the data transmitted from the core-deck.
INT/EXT	I	61	Switching signal for EXT/INT Sync. L : External sync mode
A MUTE	O	62	Audio muting control signal. Mute by "H".
POWER ON	I	63	Power on detection signal. L : Power on
	O	64	Not used.

External Bus Timing chart

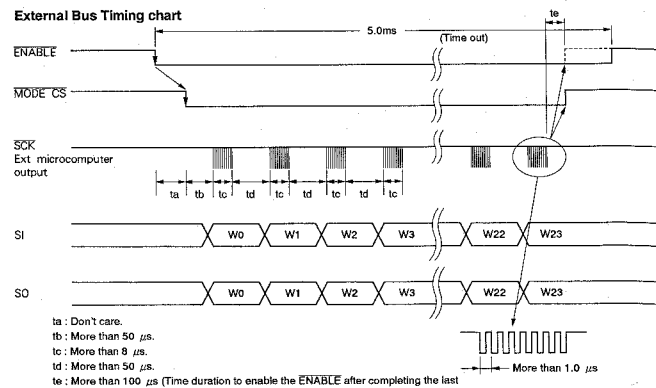
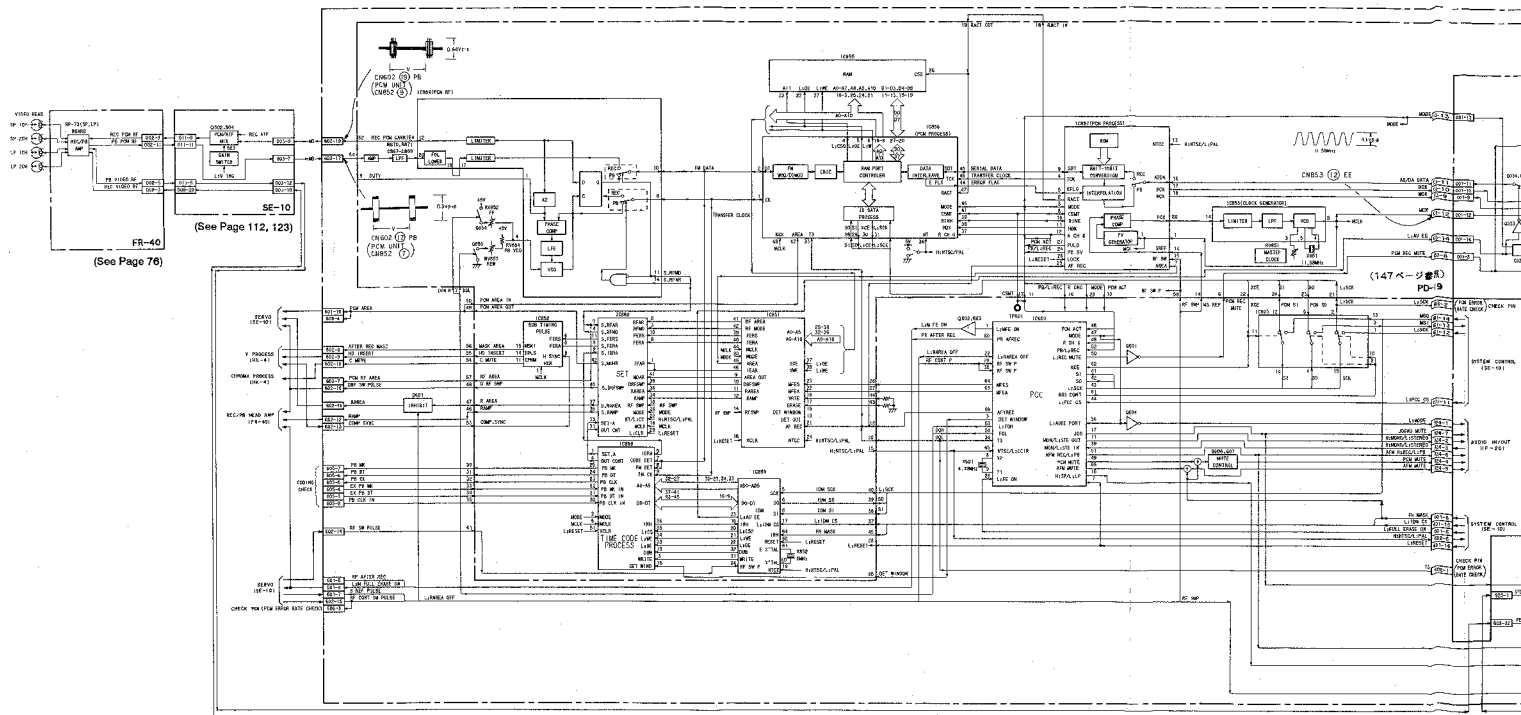
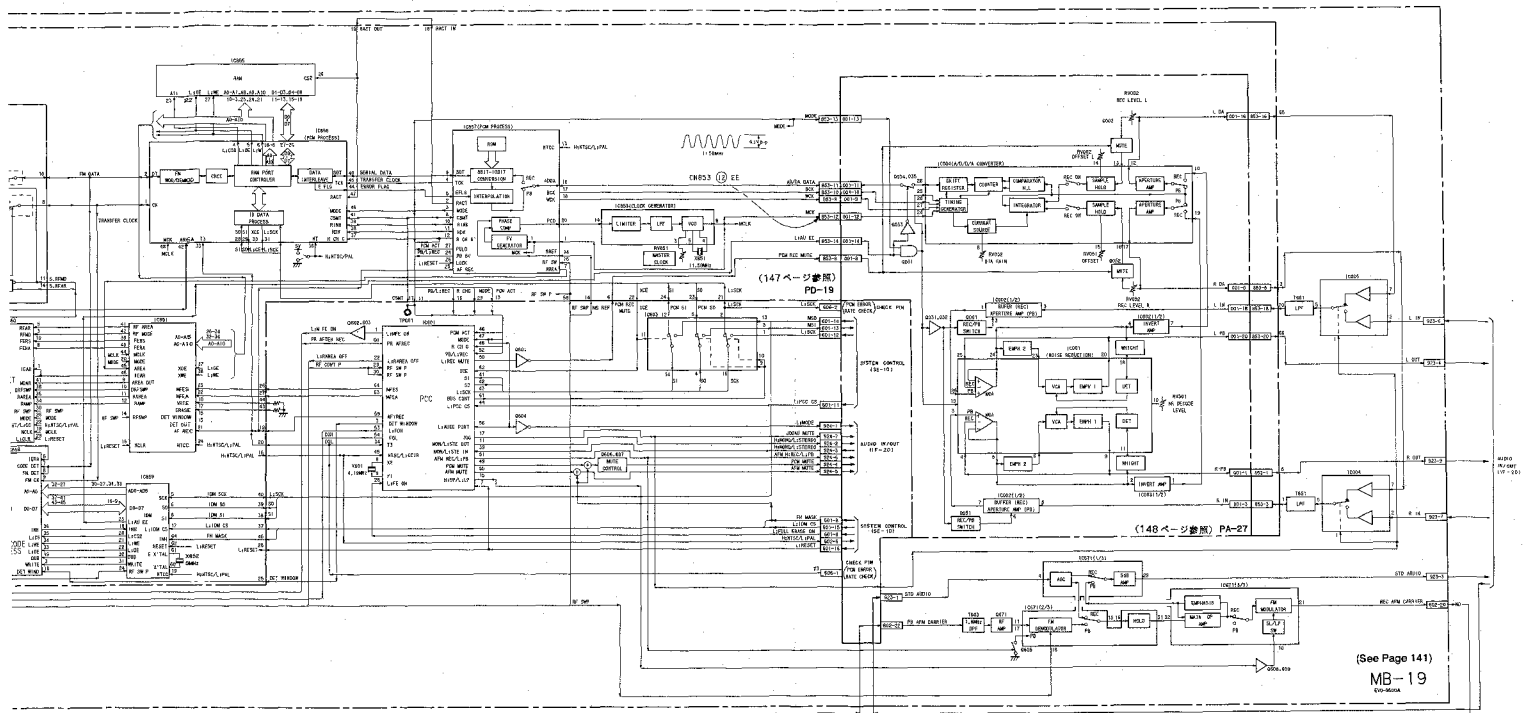
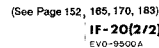
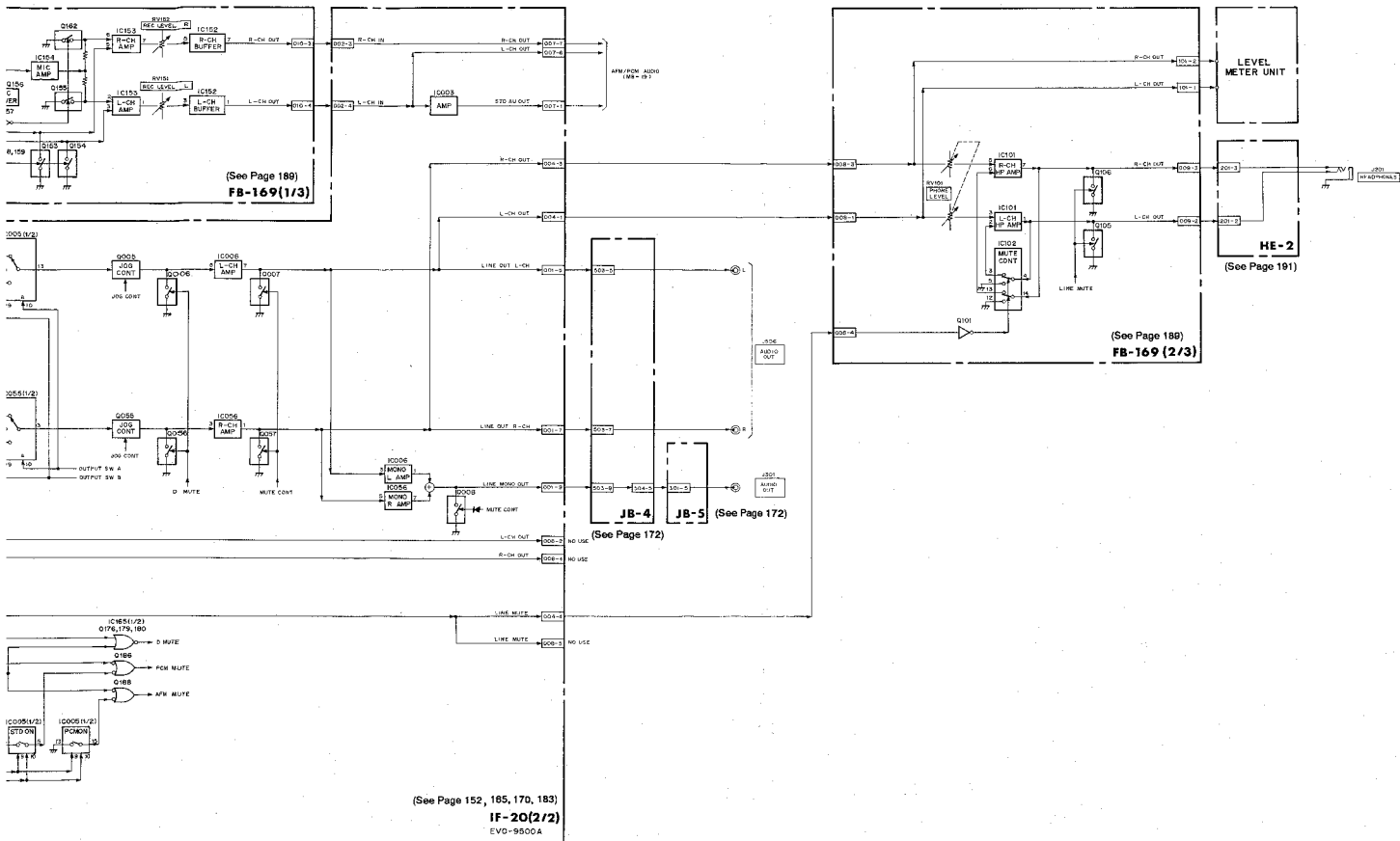


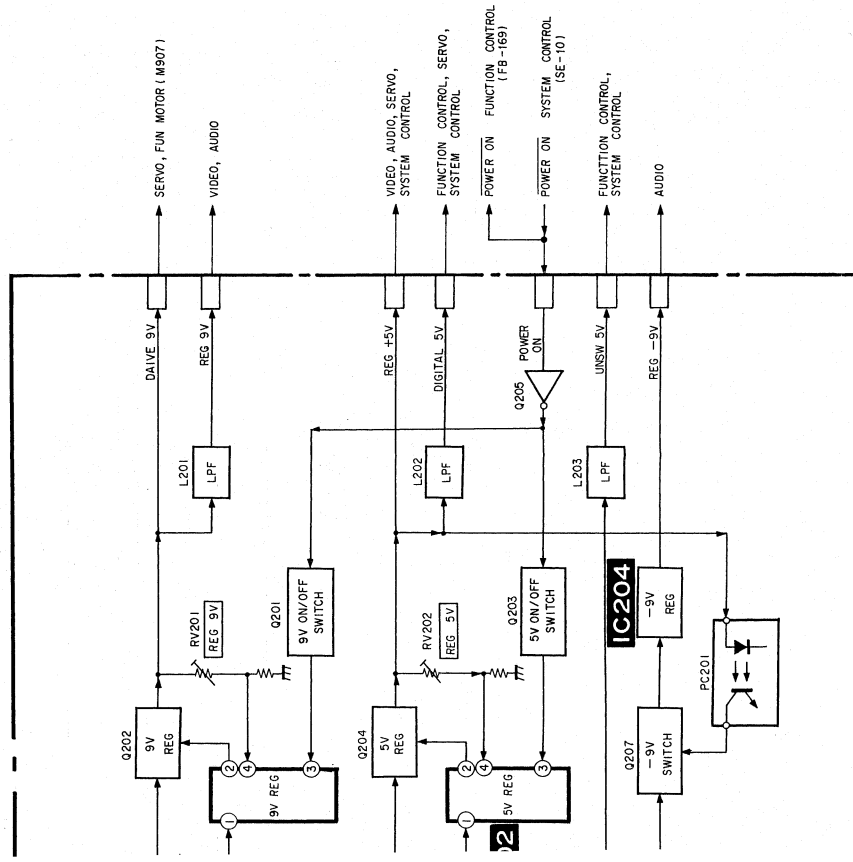
Fig. 3-1

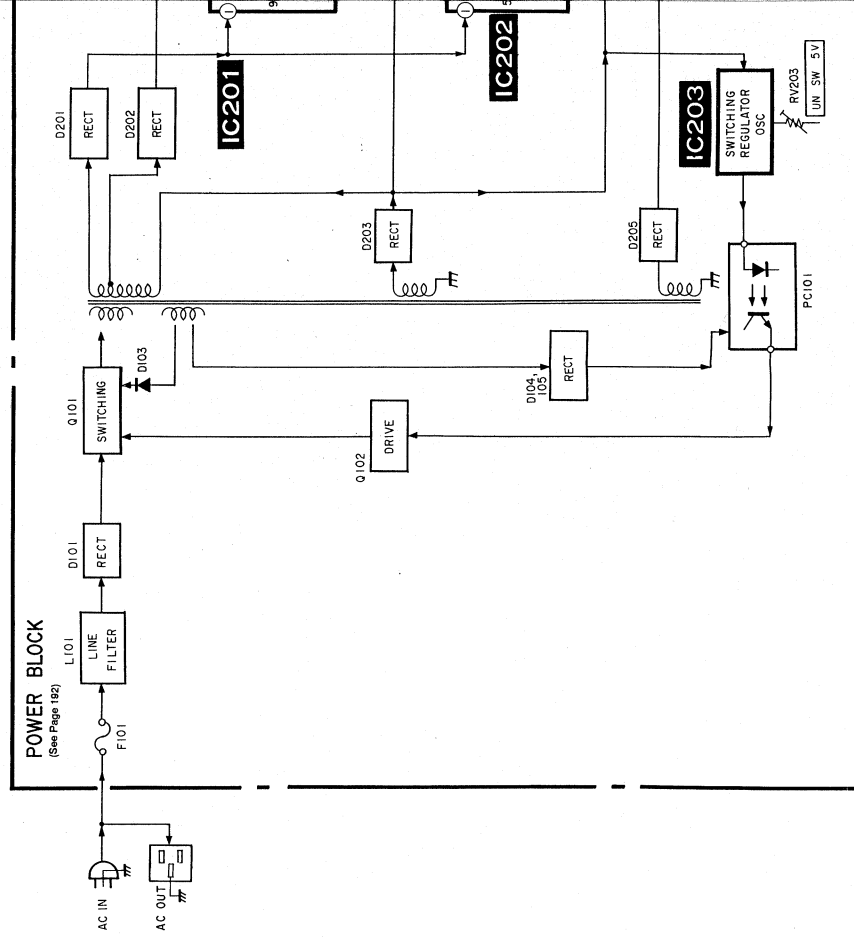








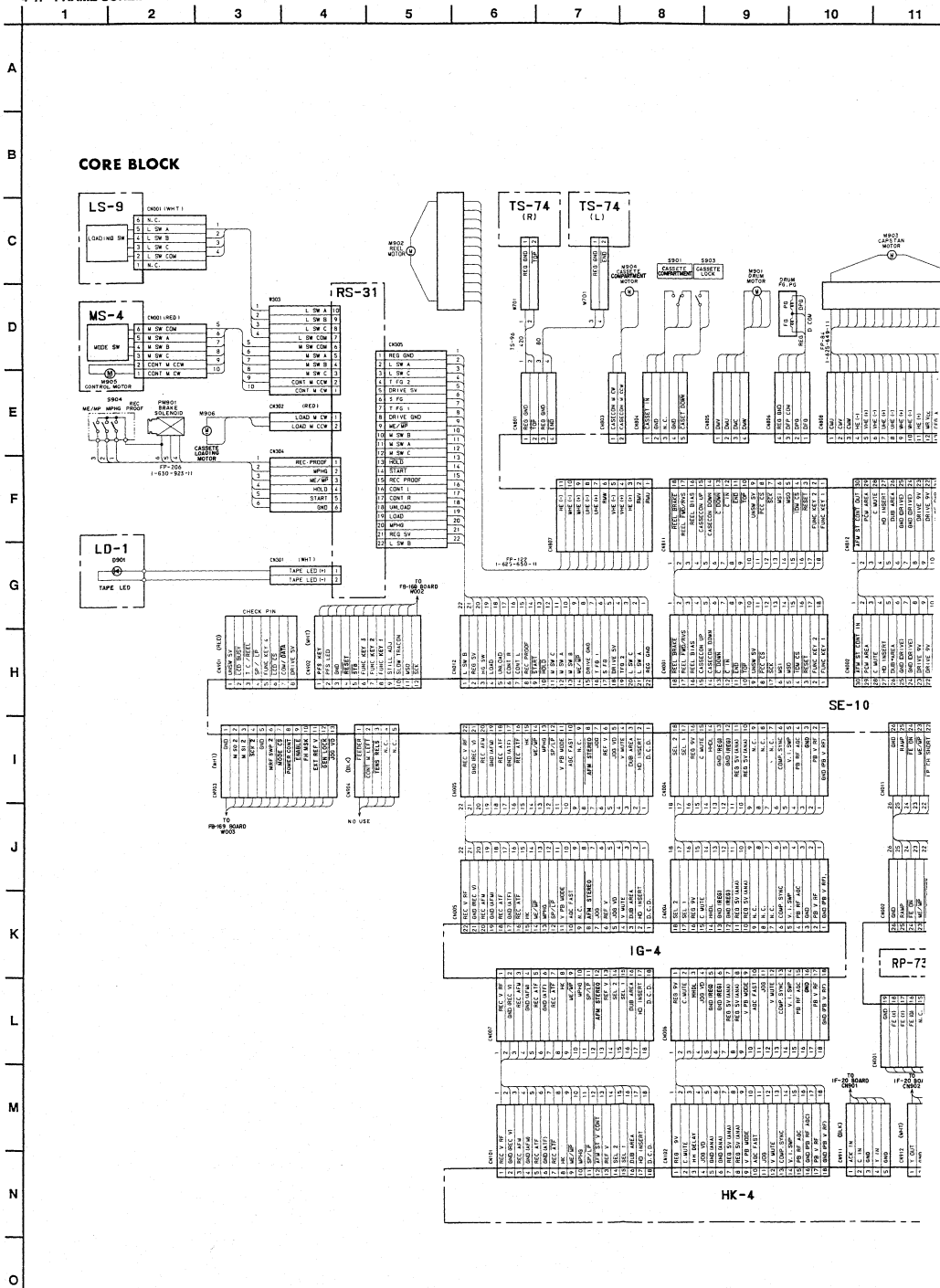




SECTION 4

PRINTED WIRING AND SCHEMATIC DIAGRAMS

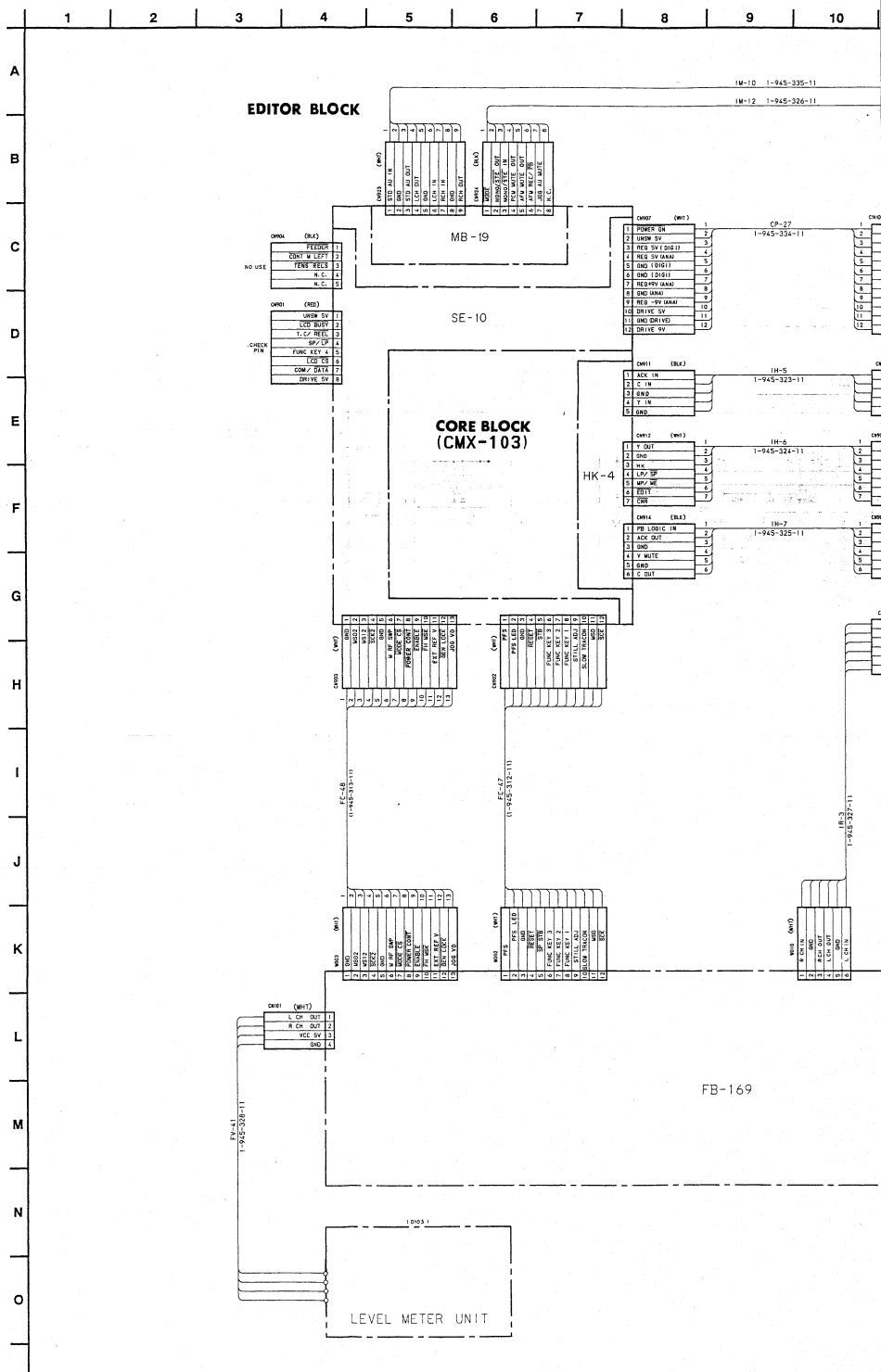
4-1. FRAME SCHEMATIC DIAGRAM

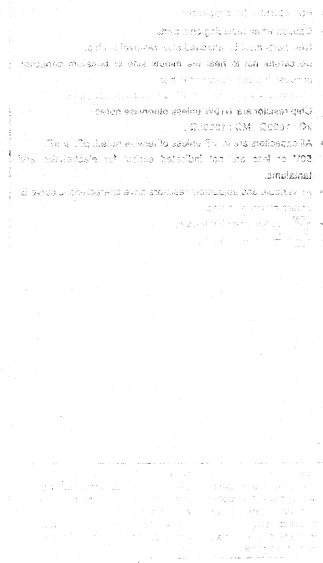










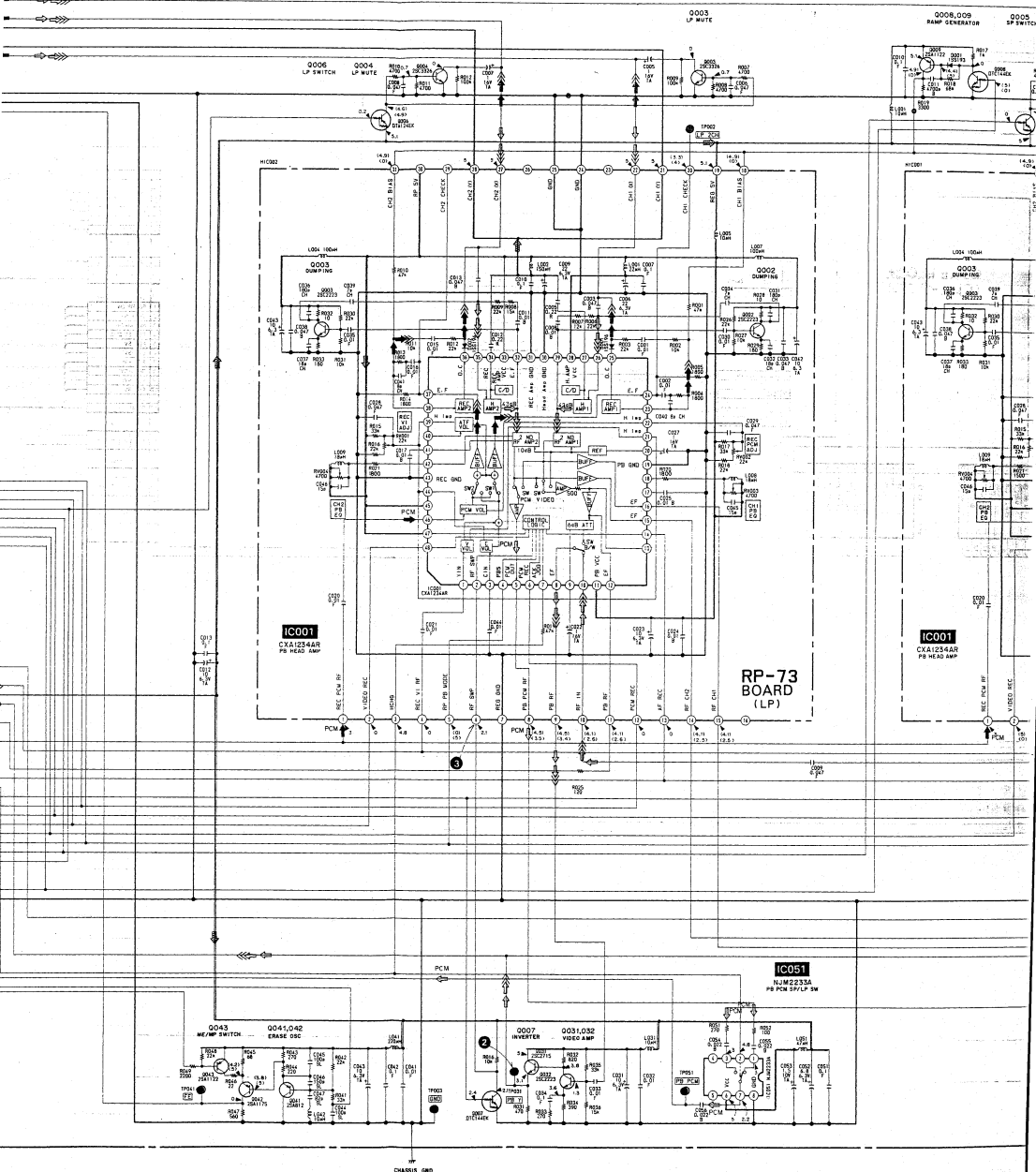


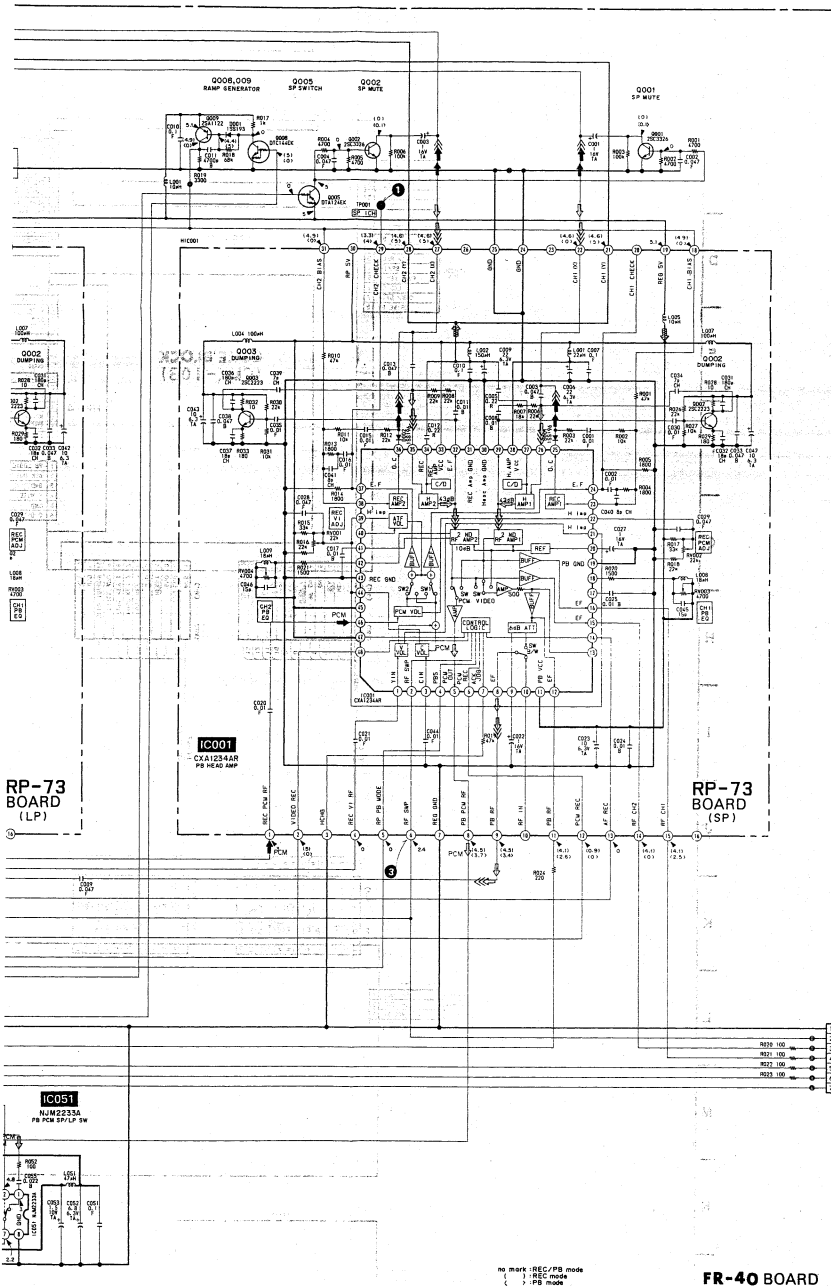


), RP-73 (LP) (HEAD AMP) SCHEMATIC DIAGRAMS

4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	----	----	----	----	----	----

ies, RP-73(LP) BOARD: 3000 series —





OR004 (VFL)	OR004 (VFL)
1	END
2	SP MUTE
3	SP 1CH
4	SP 2CH
5	LP 1CH
6	LP 2CH
7	Pin 7

no mark REC/PB mode
1) REC mode
2) PB mode

FR-40 BOARD



FR-40 (VIDEO HEAD AMP), RP-73 (SP) (HEAD AMP), RP-73 (LP) (HEAD AMP) PRINTED WIRING BOARDS

— Ref. No. FR-40 BOARD: 1000 series, RP-73(SP) BOARD: 2000 series, RP-73(LP) BOARD: 3000 series —

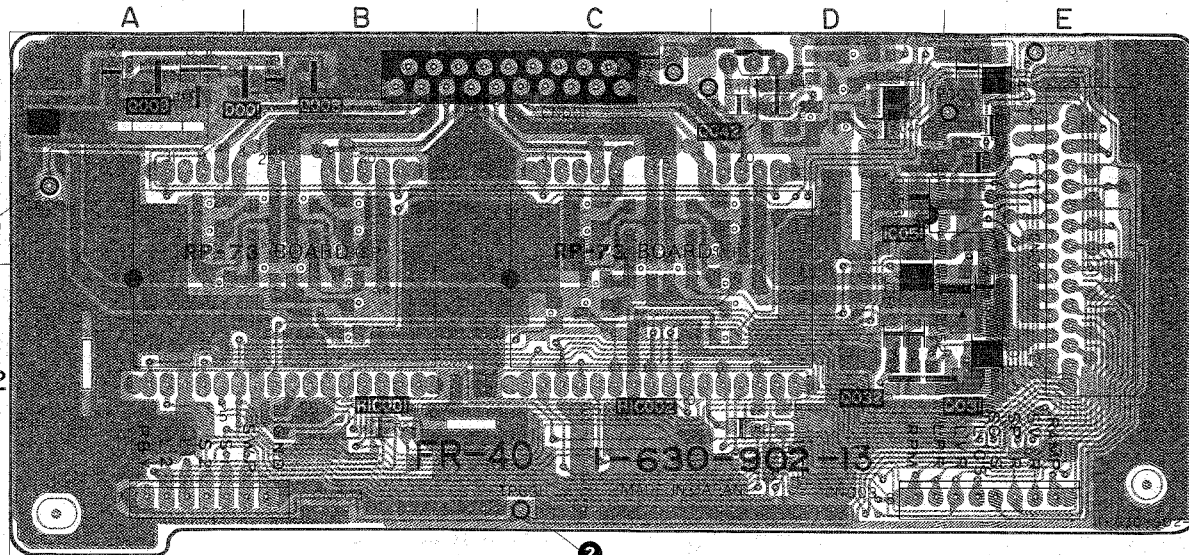
FR-40 BOARD (COMPONENT SIDE)

FR-40 BOARD
(COMPONENT
SIDE)

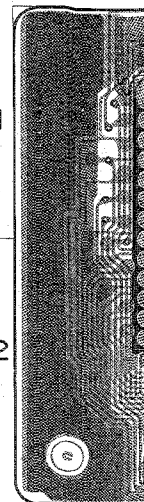
Q001 A-1
Q005 D-1
Q008 B-1
Q009 A-1
Q031 B-2
Q032 D-2
Q042 D-1

FR-40 BOARD
(CONDUCTOR
SIDE)

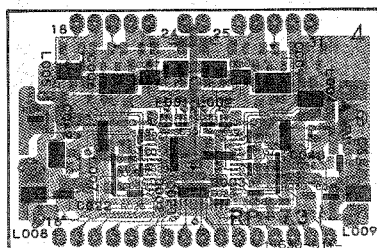
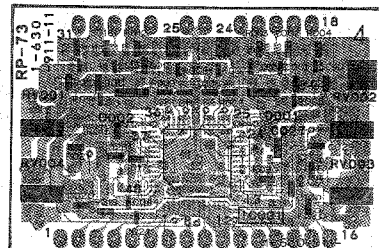
Q001 B-1
Q002 A-2
Q003 D-3
Q004 C-1
Q006 B-2
Q008 D-2
Q007 C-3
Q041 D-1
Q043 D-1



FR-40 BOA



RP-73 BOARD (SP), (LP) (COMPONENT SIDE) RP-73 BOARD (SP), (LP) (CONDUCTOR SIDE)



A-7061-822-A RP-73 (SP) BOARD, COMPLETE

(DIODE)

D001 8-719-801-41 DIODE 1SS196
D002 8-719-801-41 DIODE 1SS196

(IC)

IC001 8-752-033-00 IC CXA1234AR

(TRANSISTOR)

Q002 8-729-102-07 TRANSISTOR 2SC2223-F13
Q003 8-729-102-07 TRANSISTOR 2SC2223-F13

A-7061-827-A RP-73 (LP) BOAR

(DIODE)

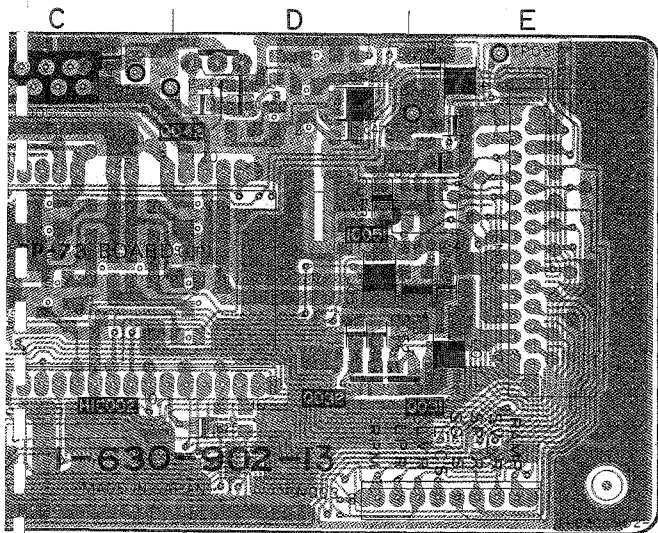
D001 8-719-801-41 DIODE
D002 8-719-801-41 DIODE

(IC)

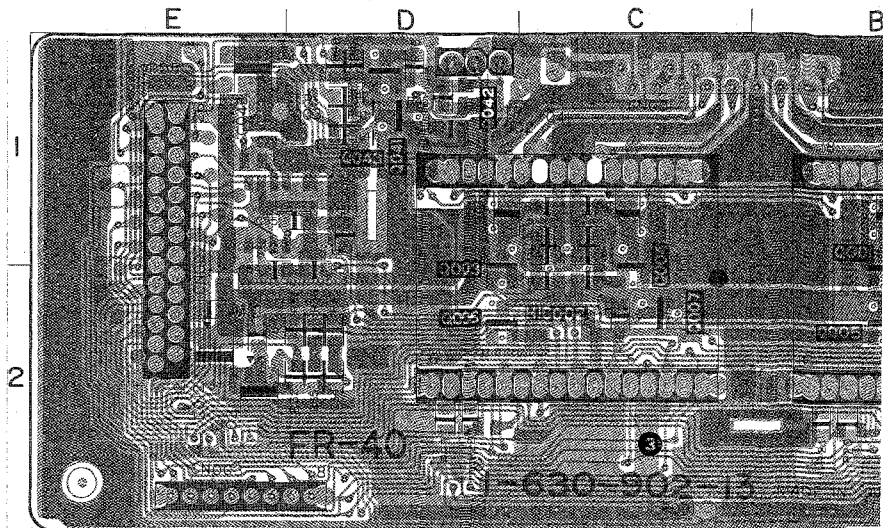
IC001 8-752-033-00 IC CXA

(TRAN

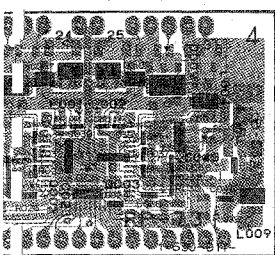
Q002 8-729-102-07 TRANSI
Q003 8-729-102-07 TRANSI



FR-40 BOARD (CONDUCTOR SIDE)



BOARD (SP),(LP) (CONDUCTOR SIDE)



A-7061-822-A RP-73 (SP) BOARD, COMPLETE

< DIODE >

D001 8-719-801-41 DIODE 1SS198
D002 8-719-801-41 DIODE 1SS198

< IC >

IC001 8-752-033-00 IC CXA1234AR

< TRANSISTOR >

Q002 8-729-102-07 TRANSISTOR 2SC2223-F13
Q003 8-729-102-07 TRANSISTOR 2SC2223-F13

A-7061-827-A RP-73 (LP) BOARD, COMPLETE

< DIODE >

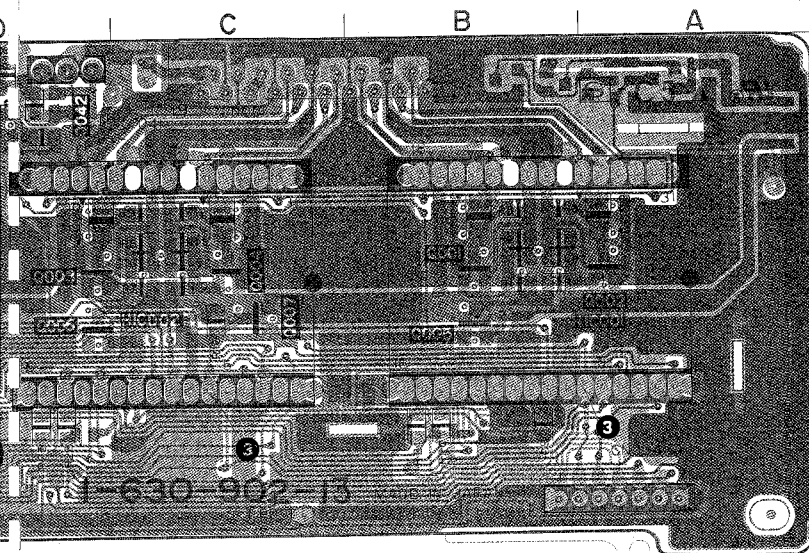
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D002 8-719-801-41 DIODE 1SS198

< IC >

IC001 8-752-033-00 IC CXA1234AR

< TRANSISTOR >

Q002 8-729-102-07 TRANSISTOR 2SC2223-F13
Q003 8-729-102-07 TRANSISTOR 2SC2223-F13



* A-7051-821-A FR-40 BOARD, COMPLETE

(DIODE)

D001 8-719-400-18 DIODE MA152WK

(IC)

IC051 8-759-710-09 IC NJM2233AM

(TRANSISTOR)

Q001 8-729-202-38 TRANSISTOR 2SC3328N
Q002 8-729-202-38 TRANSISTOR 2SC3328N
Q003 8-729-202-38 TRANSISTOR 2SC3328N
Q004 8-729-202-38 TRANSISTOR 2SC3328N
Q005 8-729-901-05 TRANSISTOR DTA124EK

Q006 8-729-901-05 TRANSISTOR DTA124EK
Q007 8-729-901-01 TRANSISTOR DTC144EK
Q008 8-729-901-01 TRANSISTOR DTC144EK
Q009 8-729-320-17 TRANSISTOR 2SA1122C
Q031 8-729-201-21 TRANSISTOR 2SC2715

Q032 8-729-102-07 TRANSISTOR 2SC2223
Q041 8-729-216-22 TRANSISTOR 2SA1162
Q042 8-729-119-76 TRANSISTOR 2SA1175
Q043 8-729-320-17 TRANSISTOR 2SA1122C

13

* A-7061-820-A HK-4 BOARD, COMPLETE

(DIODE)

D101 8-719-400-18 DIODE MA152WK
D102 8-719-400-18 DIODE MA152WK
D105 8-719-800-76 DIODE 15S226
D106 8-719-400-18 DIODE MA152WK
D107 8-719-400-18 DIODE MA152WK

D108 8-719-400-18 DIODE MA152WK
D109 8-719-400-18 DIODE MA152WK
D301 8-719-400-18 DIODE MA152WK
D302 8-719-400-18 DIODE MA152WK
D401 8-719-400-18 DIODE MA152WK

D402 8-719-400-18 DIODE MA152WK
D403 8-719-400-18 DIODE MA152WK
D404 8-719-400-18 DIODE MA152WK
D405 8-719-400-18 DIODE MA152WK
D501 8-719-400-18 DIODE MA152WK

D701 8-719-104-34 DIODE 15S2836
D702 8-719-400-18 DIODE 15S2837
D801 8-719-400-18 DIODE 15S2837
D802 8-719-400-18 DIODE 15S2837
D803 8-719-104-34 DIODE 15S2836

D901 8-719-400-18 DIODE MA152WK

(IC)

IC101 8-759-233-94 IC TA8607F
IC102 8-759-925-60 IC BA401
IC299 8-759-238-58 IC TC74HC221AF
IC301 8-752-002-XX IC CX20050
IC401 8-752-031-01 IC CXA1047M

IC501 8-752-003-12 IC CX20031
IC501 8-752-002-10 IC CX20021
IC602 8-752-003-22 IC CX20032
IC603 8-759-914-56 IC CX23054
IC701 8-752-322-24 IC CX11008M

IC801 8-752-322-24 IC CX11008M
IC851 8-759-710-05 IC M2239M
IC901 8-759-925-74 IC TC74HC04AF
IC902 8-759-925-74 IC TC74HC04AF

(TRANSISTOR)

O101 8-729-102-07 TRANSISTOR 25C2223
O102 8-729-901-04 TRANSISTOR DT1A14EK
O103 8-729-102-07 TRANSISTOR 25C2223
O104 8-729-901-01 TRANSISTOR DT1A14EK
O105 8-729-904-07 TRANSISTOR FM62-T-148

O107 8-729-100-66 TRANSISTOR 25C1623
O110 8-729-901-01 TRANSISTOR DT1A14EK
O111 8-729-102-07 TRANSISTOR 25C2223
O112 8-729-901-01 TRANSISTOR DT1A14EK
O113 8-729-102-07 TRANSISTOR 25C2223

O116 8-729-102-07 TRANSISTOR 25C2223
O117 8-729-102-07 TRANSISTOR 25C2223
O118 8-729-102-07 TRANSISTOR 25C2223
O119 8-729-102-07 TRANSISTOR 25C2223
O120 8-729-102-07 TRANSISTOR 25C2223

O121 8-729-100-66 TRANSISTOR 25C1623
O122 8-729-901-01 TRANSISTOR DT1A14EK
O123 8-729-901-01 TRANSISTOR DT1A14EK
O124 8-729-901-01 TRANSISTOR DT1A14EK
O125 8-729-901-01 TRANSISTOR DT1A14EK

O126 8-729-100-66 TRANSISTOR 25C1623
O127 8-729-100-66 TRANSISTOR 25C1623
O128 8-729-102-07 TRANSISTOR 25C2223
O129 8-729-100-66 TRANSISTOR 25C1623
O130 8-729-907-26 TRANSISTOR 1XK1

O131 8-729-320-17 TRANSISTOR 25A1122CD
O132 8-729-100-66 TRANSISTOR 25C3326N
O181 8-729-907-46 TRANSISTOR 1XK1
O182 8-729-903-10 TRANSISTOR FMH1
O184 8-729-320-17 TRANSISTOR 25A1122CD

O201 8-729-102-07 TRANSISTOR 25C2223
O202 8-729-202-38 TRANSISTOR 25C3326N
O203 8-729-202-38 TRANSISTOR 25C3326N
O204 8-729-904-07 TRANSISTOR FM62
O206 8-729-122-63 TRANSISTOR 25A11226

O207 8-729-202-38 TRANSISTOR 25C3326N
O208 8-729-201-27 TRANSISTOR 25C2715
O209 8-729-201-27 TRANSISTOR 25C2715
O210 8-729-102-07 TRANSISTOR 25C2223
O211 8-729-102-07 TRANSISTOR 25C2223

O212 8-729-901-01 TRANSISTOR DT1A14EK
O213 8-729-901-06 TRANSISTOR DT1A14EK
O214 8-729-102-07 TRANSISTOR 25C2223
O215 8-729-902-96 TRANSISTOR FM51
O217 8-729-102-07 TRANSISTOR 25C2223

O218 8-729-102-07 TRANSISTOR 25C2223
O219 8-729-901-01 TRANSISTOR DT1A14EK
O239 8-729-901-06 TRANSISTOR DT1A14EK
O301 8-729-100-66 TRANSISTOR 25C1623
O302 8-729-100-66 TRANSISTOR 25C1623

O305 8-729-100-66 TRANSISTOR 25C1623
O306 8-729-100-66 TRANSISTOR 25C1623
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O309 8-729-100-66 TRANSISTOR 25C1623
O310 8-729-100-66 TRANSISTOR 25C1623

O311 8-729-100-66 TRANSISTOR 25C1623
O312 8-729-901-06 TRANSISTOR DT1A14EK
O313 8-729-320-17 TRANSISTOR 25A1122CD
O314 8-729-100-66 TRANSISTOR 25C1623
O315 8-729-100-66 TRANSISTOR 25C1623

O316 8-729-901-01 TRANSISTOR DT1A14EK
O317 8-729-100-66 TRANSISTOR 25C1623
O318 8-729-901-06 TRANSISTOR DT1A14EK
O319 8-729-100-66 TRANSISTOR 25C1623
O320 8-729-901-01 TRANSISTOR DT1A14EK

O321 8-729-100-66 TRANSISTOR 25C1623
O322 8-729-320-17 TRANSISTOR 25A1122CD
O323 8-729-901-01 TRANSISTOR DT1A14EK
O324 8-729-901-01 TRANSISTOR DT1A14EK
O325 8-729-901-06 TRANSISTOR DT1A14EK

O326 8-729-901-06 TRANSISTOR DT1A14EK
O328 8-729-100-66 TRANSISTOR 25C1623
O401 8-729-100-66 TRANSISTOR 25C1623
O402 8-729-100-66 TRANSISTOR 25C1623
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O404 8-729-901-01 TRANSISTOR DT1A14EK
O405 8-729-901-06 TRANSISTOR DT1A14EK
O406 8-729-100-66 TRANSISTOR 25C1623
O407 8-729-320-17 TRANSISTOR 25A1122CD
O408 8-729-320-17 TRANSISTOR 25A1122CD

O409 8-729-100-66 TRANSISTOR 25C1623
O410 8-729-320-17 TRANSISTOR 25A1122CD
O411 8-729-901-01 TRANSISTOR DT1A14EK
O412 8-729-901-01 TRANSISTOR DT1A14EK
O413 8-729-901-01 TRANSISTOR DT1A14EK

O414 8-729-100-66 TRANSISTOR 25C1623
O415 8-729-320-17 TRANSISTOR 25A1122CD
O416 8-729-320-17 TRANSISTOR 25A1122CD
O417 8-729-901-01 TRANSISTOR DT1A14EK
O418 8-729-100-66 TRANSISTOR 25C1623

O419 8-729-100-66 TRANSISTOR 25C1623
O420 8-729-202-38 TRANSISTOR 25C3326N
O421 8-729-202-38 TRANSISTOR 25C3326N
O422 8-729-100-66 TRANSISTOR 25C1623
O423 8-729-100-66 TRANSISTOR 25C1623

O424 8-729-901-01 TRANSISTOR DT1A14EK
O425 8-729-100-66 TRANSISTOR 25C1623
O426 8-729-100-66 TRANSISTOR 25C1623
O427 8-729-320-17 TRANSISTOR 25A1122CD
O428 8-729-320-17 TRANSISTOR 25A1122CD

O429 8-729-901-01 TRANSISTOR DT1A14EK
O430 8-729-901-01 TRANSISTOR DT1A14EK
O431 8-729-320-17 TRANSISTOR 25A1122CD
O501 8-729-901-06 TRANSISTOR DT1A14EK
O502 8-729-901-01 TRANSISTOR DT1A14EK

O503 8-729-901-00 TRANSISTOR DT1A14EK
O601 8-729-901-01 TRANSISTOR DT1A14EK
O603 8-729-901-01 TRANSISTOR DT1A14EK
O604 8-729-100-66 TRANSISTOR 25C1623
O605 8-729-100-66 TRANSISTOR 25C1623

O606 8-729-901-01 TRANSISTOR DT1A14EK
O607 8-729-100-66 TRANSISTOR 25C1623
O608 8-729-320-17 TRANSISTOR 25A1122CD
O701 8-729-901-01 TRANSISTOR DT1A14EK
O702 8-729-216-22 TRANSISTOR 25A1162

O703 8-729-216-22 TRANSISTOR 25A1162
O704 8-729-216-22 TRANSISTOR 25A1162
O705 8-729-320-17 TRANSISTOR 25A1122CD
O706 8-729-901-01 TRANSISTOR DT1A14EK
O707 8-729-901-01 TRANSISTOR DT1A14EK

O708 8-729-216-22 TRANSISTOR 25A1162
O709 8-729-216-22 TRANSISTOR 25A1162
O710 8-729-320-17 TRANSISTOR 25A1122CD
O801 8-729-901-01 TRANSISTOR DT1A14EK
O802 8-729-320-17 TRANSISTOR 25A1122CD

O803 8-729-216-22 TRANSISTOR 25A1162
O804 8-729-216-22 TRANSISTOR 25A1162
O805 8-729-216-22 TRANSISTOR 25A1162
O806 8-729-320-17 TRANSISTOR 25A1122CD
O807 8-729-901-01 TRANSISTOR DT1A14EK

O808 8-729-216-22 TRANSISTOR 25A1162
O809 8-729-216-22 TRANSISTOR 25A1162
O810 8-729-320-17 TRANSISTOR 25A1122CD
O811 8-729-901-01 TRANSISTOR DT1A14EK
O851 8-729-100-66 TRANSISTOR 25C1623

O852 8-729-100-66 TRANSISTOR 25C1623
O901 8-729-901-00 TRANSISTOR DT1A14EK
O902 8-729-901-01 TRANSISTOR DT1A14EK
O903 8-729-104-25 TRANSISTOR 25B804-AV
O904 8-729-100-66 TRANSISTOR 25C1623

O905 8-729-100-66 TRANSISTOR 25C1623
O906 8-729-100-66 TRANSISTOR 25C1623
O907 8-729-100-66 TRANSISTOR 25C1623
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O915 8-729-100-66 TRANSISTOR 25C1623
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O920 8-729-100-66 TRANSISTOR 25C1623
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O937 8-729-100-66 TRANSISTOR 25C1623
O938 8-729-100-66 TRANSISTOR 25C1623
O939 8-729-100-66 TRANSISTOR 25C1623

O940 8-729-100-66 TRANSISTOR 25C1623
O941 8-729-100-66 TRANSISTOR 25C1623
O942 8-729-100-66 TRANSISTOR 25C1623
O943 8-729-100-66 TRANSISTOR 25C1623
O944 8-729-100-66 TRANSISTOR 25C1623

HK-4 (C VIDEO PROCESS, Y VIDEO PROCESS, Y/C(AFM MIX) PRINTED WIRING BOARD)

— Ref. No. HK-4 BOARD: 4000 series —

HK-4 BOARD (COMPONENT)

HK-4 BOARD (CONDUCTOR)

HK-4 BOARD (COMPONENT)

HK-4 BOARD (CONDUCTOR)

HK-4 BOARD (COMPONENT)

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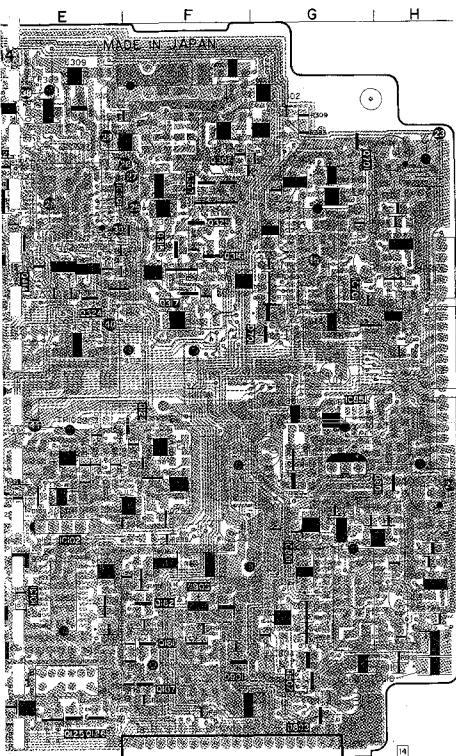
HK-4 BOARD (COMPONENT)

HK-4 BOARD (CONDUCTOR)

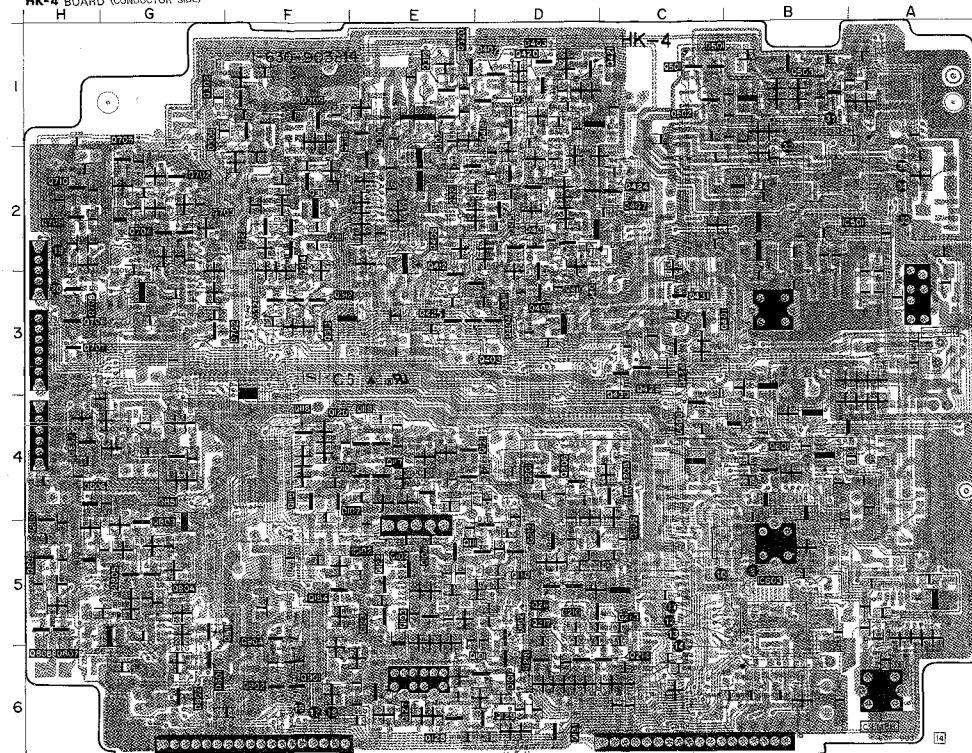
HK-4 BOARD (COMPONENT)

HK-4 BOARD (CONDUCTOR)

HK-4 BOARD (COMPONENT)

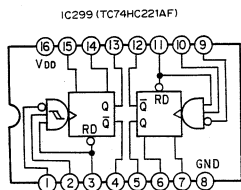
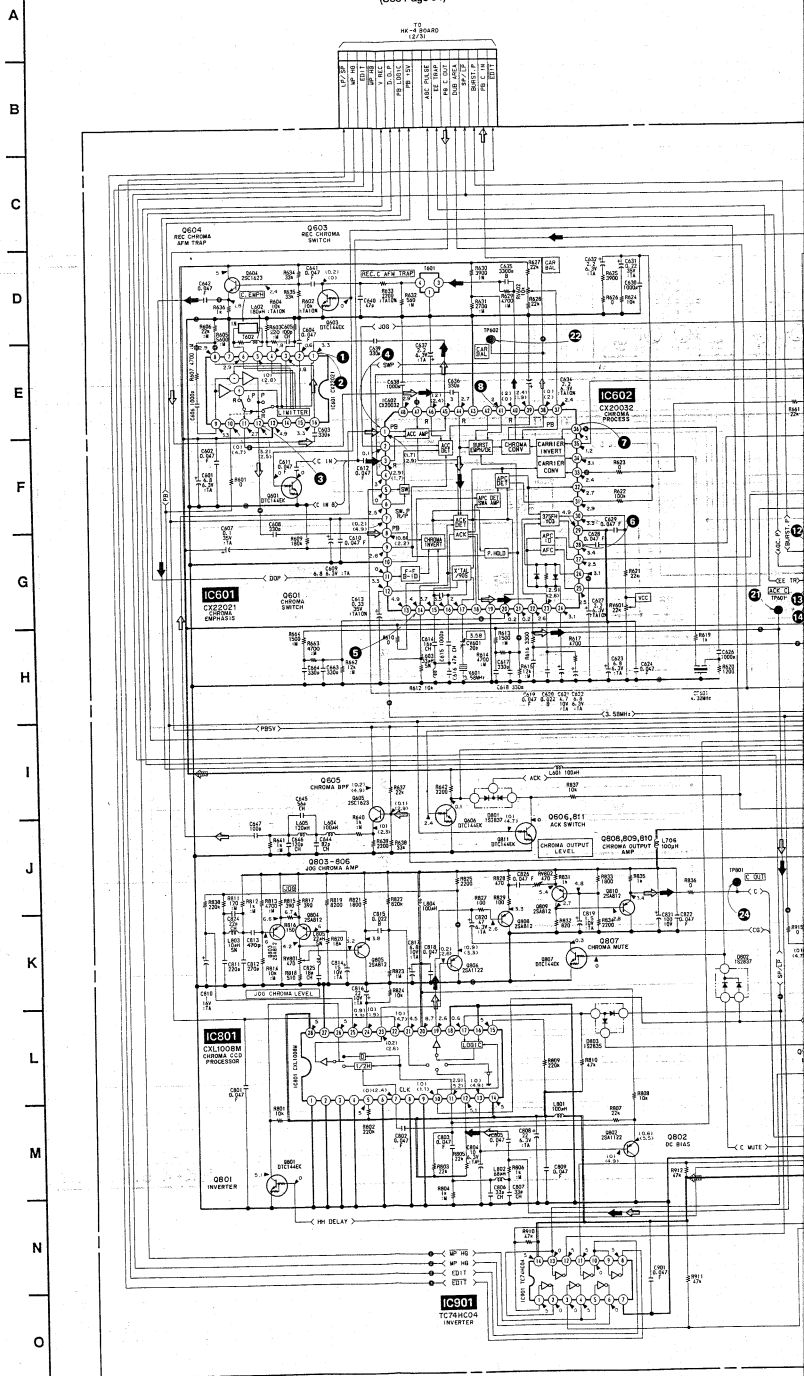


HK-4 BOARD (CONDUCTOR SIDE)



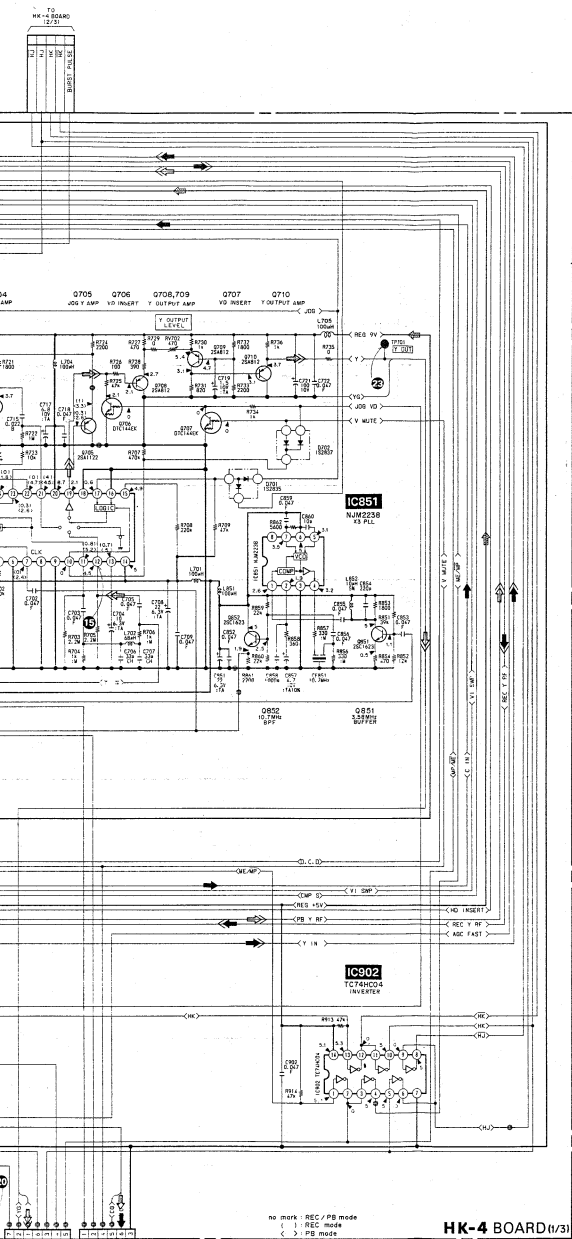
— Ref. No. HK-4 BOARD: 4000 series —

(See Page 94)



16 17 18 19 20 21 22

(See Page 95)

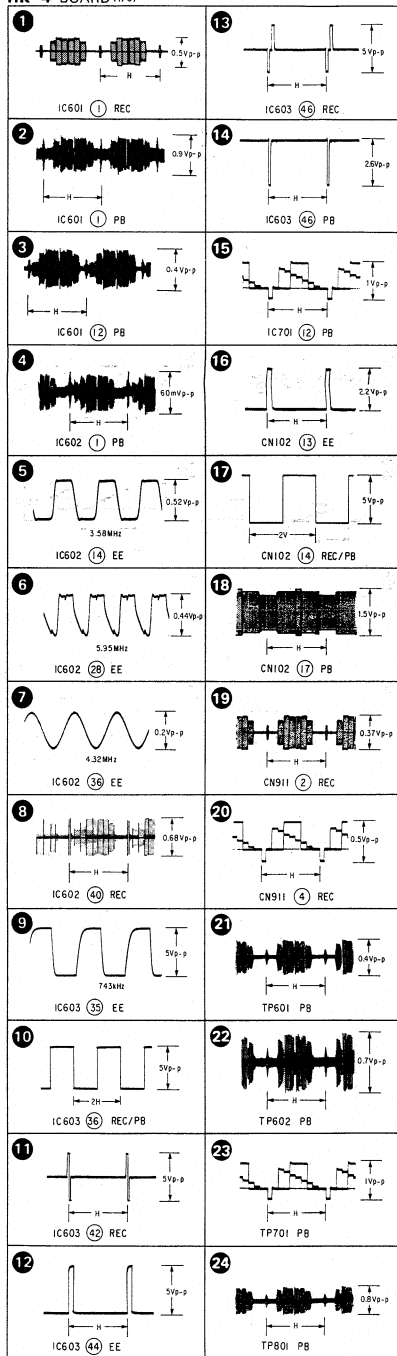


HK-4 BOARD (1/3)

* SIGNAL PATH

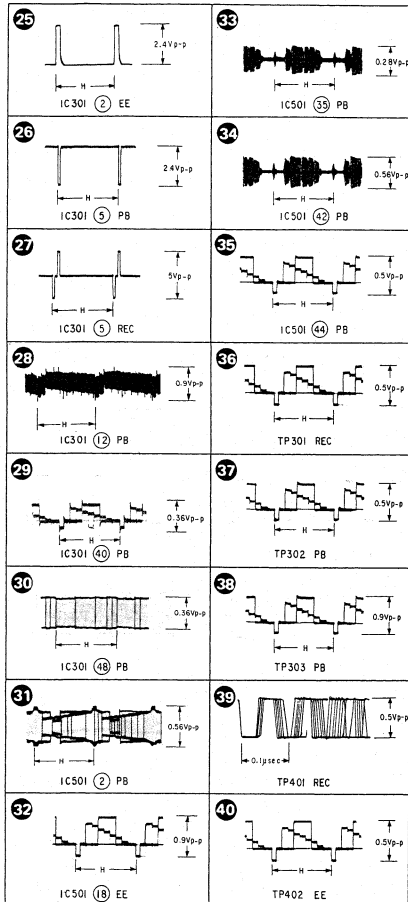
	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	➡➡		➡
PB	➡	➡➡		➡

HK-4 BOARD (1/3)



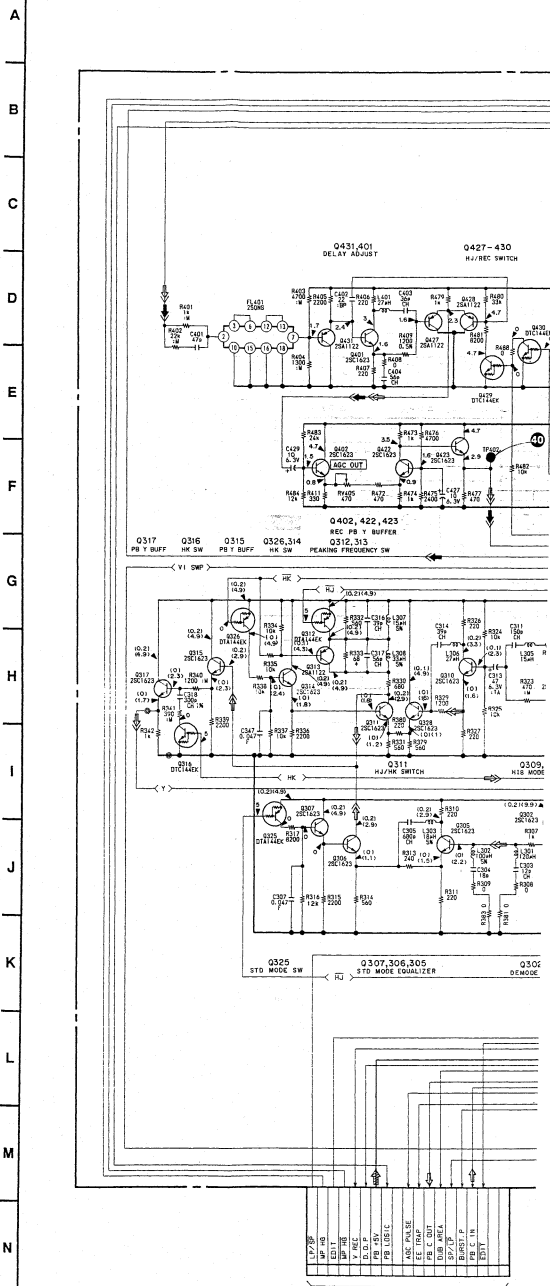


HK-4 BOARD (2/3)



HK-4 (Y VIDEO PROCESS) SCHEMATIC DIAGRAM

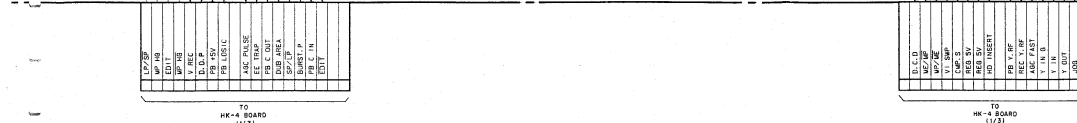
— Ref. No. HK-4 BOARD: 4000 series —





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Q403 - 410,424
STD/H18 MODE FM DEVIATION



(See Page 91)

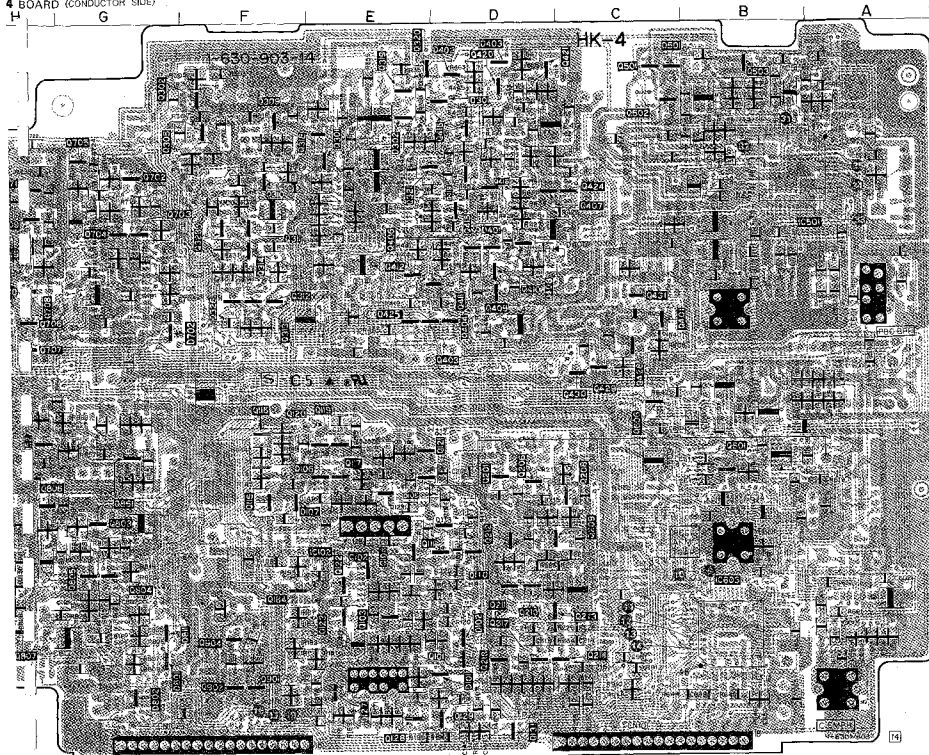
K-4 (C VIDEO PROCESS, Y VIDEO PROCESS, Y/C/AFM MIX) PRINTED WIRING BOARD

No. HK-4 BOARD: 4000 series

1:4 BOARD
COMPONENT
SIDE

0: D-2
1: D-3
2: D-4
3: D-5
4: D-6
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4 BOARD (CONDUCTOR SIDE)



* A-7051-820-A HK-4 BOARD, COMPLETE

(DIODE)

D101 8-719-400-18 DIODE MA152WK
 D102 8-719-400-18 DIODE MA152WK
 D105 8-719-800-76 DIODE 1SS226
 D106 8-719-400-18 DIODE MA152WK
 D107 8-719-400-18 DIODE MA152WK

D108 8-719-400-18 DIODE MA152WK
 D109 8-719-400-18 DIODE MA152WK
 D301 8-719-400-18 DIODE MA152WK
 D302 8-719-400-18 DIODE MA152WK
 D401 8-719-400-18 DIODE MA152WK

D402 8-719-400-18 DIODE MA152WK
 D403 8-719-400-18 DIODE MA152WK
 D404 8-719-400-18 DIODE MA152WK
 D405 8-719-400-18 DIODE MA152WK
 D501 8-719-400-18 DIODE MA152WK

D701 8-719-104-34 DIODE 1S2838
 D702 8-719-400-18 DIODE 1S2837
 D801 8-719-400-18 DIODE 1S2837
 D802 8-719-400-18 DIODE 1S2837
 D803 8-719-104-34 DIODE 1S2838

D901 8-719-400-18 DIODE MA152WK

(IC)

IC101 8-759-233-64 IC TA8807F
 IC102 8-759-925-60 IC BA401
 IC299 8-759-239-58 IC TC74HC221AF
 IC301 8-752-002-XX IC CX20030
 IC401 8-752-031-01 IC CXA1047M

IC501 8-752-003-12 IC CX20031
 IC601 8-752-202-10 IC CX22021
 IC602 8-752-003-22 IC CX20032
 IC603 8-759-914-56 IC CX23054
 IC701 8-752-322-24 IC CX11009M

IC801 8-752-322-24 IC CX11009M
 IC851 8-759-710-05 IC NL2233M
 IC901 8-759-925-74 IC TC74HC0DAF
 IC902 8-759-925-74 IC TC74HC0DAF

(TRANSISTOR)

Q101 8-729-102-07 TRANSISTOR 2SC2223
 Q102 8-729-901-04 TRANSISTOR DTC144EK
 Q103 8-729-102-07 TRANSISTOR 2SC2223
 Q104 8-729-901-01 TRANSISTOR DTC144EK
 Q105 8-729-904-07 TRANSISTOR FM62-T-148

Q107 8-729-100-66 TRANSISTOR 2SC1623
 Q110 8-729-901-01 TRANSISTOR DTC144EK
 Q111 8-729-102-07 TRANSISTOR 2SC2223
 Q112 8-729-901-01 TRANSISTOR DTC144EK
 Q113 8-729-102-07 TRANSISTOR 2SC2223

Q116 8-729-102-07 TRANSISTOR 2SC2223
 Q117 8-729-102-07 TRANSISTOR 2SC2223
 Q118 8-729-102-07 TRANSISTOR 2SC2223
 Q119 8-729-102-07 TRANSISTOR 2SC2223
 Q120 8-729-102-07 TRANSISTOR 2SC2223

Q121 8-729-100-66 TRANSISTOR 2SC1623
 Q122 8-729-901-01 TRANSISTOR DTC144EK
 Q123 8-729-901-01 TRANSISTOR DTC144EK
 Q124 8-729-901-06 TRANSISTOR DTA144EK
 Q125 8-729-901-01 TRANSISTOR DTC144EK

Q126 8-729-100-66 TRANSISTOR 2SC1623
 Q127 8-729-100-66 TRANSISTOR 2SC1623
 Q128 8-729-102-07 TRANSISTOR 2SC2223
 Q129 8-729-100-66 TRANSISTOR 2SC1623
 Q130 8-729-907-26 TRANSISTOR 1M1

Q131 8-729-320-17 TRANSISTOR 2SA1122CD
 Q132 8-729-202-38 TRANSISTOR 2SC3326N
 Q181 8-729-907-48 TRANSISTOR 1M21
 Q182 8-729-903-10 TRANSISTOR FM61
 Q184 8-729-320-17 TRANSISTOR 2SA1122CD

Q201 8-729-102-07 TRANSISTOR 2SC2223
 Q202 8-729-202-38 TRANSISTOR 2SC3326N
 Q203 8-729-202-38 TRANSISTOR 2SC3326N
 Q204 8-729-904-07 TRANSISTOR FM62
 Q206 8-729-122-63 TRANSISTOR 2SA1226

Q207 8-729-202-38 TRANSISTOR 2SC3326N
 Q208 8-729-201-27 TRANSISTOR 2SC2715
 Q209 8-729-201-27 TRANSISTOR 2SC2715
 Q210 8-729-102-07 TRANSISTOR 2SC2223
 Q211 8-729-102-07 TRANSISTOR 2SC2223

Q212 8-729-901-01 TRANSISTOR DTC144EK
 Q213 8-729-901-06 TRANSISTOR DTA144EK
 Q214 8-729-102-07 TRANSISTOR 2SC2223
 Q215 8-729-902-96 TRANSISTOR FM61
 Q217 8-729-102-07 TRANSISTOR 2SC2223

Q218 8-729-102-07 TRANSISTOR 2SC2223
 Q219 8-729-901-01 TRANSISTOR DTC144EK
 Q299 8-729-901-06 TRANSISTOR DTA144EK
 Q301 8-729-100-66 TRANSISTOR 2SC1623
 Q302 8-729-100-66 TRANSISTOR 2SC1623

Q305 8-729-100-66 TRANSISTOR 2SC1623
 Q306 8-729-100-66 TRANSISTOR 2SC1623
 Q307 8-729-100-66 TRANSISTOR 2SC1623
 Q309 8-729-100-66 TRANSISTOR 2SC1623
 Q310 8-729-100-66 TRANSISTOR 2SC1623

Q311 8-729-100-66 TRANSISTOR 2SC1623
 Q312 8-729-901-06 TRANSISTOR DTA144EK
 Q313 8-729-320-17 TRANSISTOR 2SA1122CD
 Q314 8-729-100-66 TRANSISTOR 2SC1623
 Q315 8-729-100-66 TRANSISTOR 2SC1623

Q316 8-729-901-01 TRANSISTOR DTC144EK
 Q317 8-729-100-66 TRANSISTOR 2SC1623
 Q318 8-729-901-06 TRANSISTOR DTA144EK
 Q319 8-729-100-66 TRANSISTOR 2SC1623
 Q320 8-729-901-01 TRANSISTOR DTC144EK

Q321 8-729-102-07 TRANSISTOR 2SC2223
 Q322 8-729-102-07 TRANSISTOR 2SC2223
 Q323 8-729-102-07 TRANSISTOR 2SC2223
 Q324 8-729-102-07 TRANSISTOR 2SC2223
 Q325 8-729-102-07 TRANSISTOR 2SC2223

Q326 8-729-100-66 TRANSISTOR 2SC1623
 Q328 8-729-901-01 TRANSISTOR DTC144EK
 Q401 8-729-901-01 TRANSISTOR DTC144EK
 Q402 8-729-901-06 TRANSISTOR DTA144EK
 Q403 8-729-901-01 TRANSISTOR DTC144EK

Q404 8-729-100-66 TRANSISTOR 2SC1623
 Q405 8-729-100-66 TRANSISTOR 2SC1623
 Q406 8-729-102-07 TRANSISTOR 2SC2223
 Q407 8-729-100-66 TRANSISTOR 2SC1623
 Q408 8-729-907-26 TRANSISTOR 1M1

Q409 8-729-320-17 TRANSISTOR 2SA1122CD
 Q410 8-729-202-38 TRANSISTOR 2SC3326N
 Q411 8-729-907-48 TRANSISTOR 1M21
 Q412 8-729-903-10 TRANSISTOR FM61
 Q413 8-729-320-17 TRANSISTOR 2SA1122CD

Q414 8-729-102-07 TRANSISTOR 2SC2223
 Q415 8-729-202-38 TRANSISTOR 2SC3326N
 Q416 8-729-202-38 TRANSISTOR 2SC3326N
 Q417 8-729-904-07 TRANSISTOR FM62
 Q418 8-729-122-63 TRANSISTOR 2SA1226

Q419 8-729-202-38 TRANSISTOR 2SC3326N
 Q420 8-729-201-27 TRANSISTOR 2SC2715
 Q421 8-729-201-27 TRANSISTOR 2SC2715
 Q422 8-729-102-07 TRANSISTOR 2SC2223
 Q423 8-729-102-07 TRANSISTOR 2SC2223

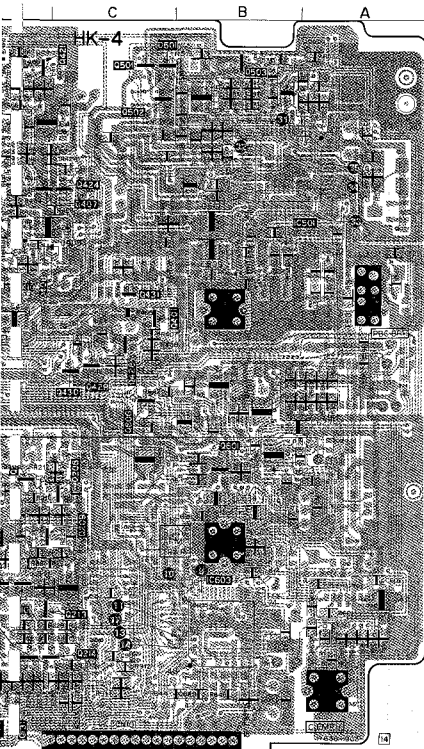
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 Q425 8-729-901-06 TRANSISTOR DTA144EK
 Q426 8-729-102-07 TRANSISTOR 2SC2223
 Q427 8-729-902-96 TRANSISTOR FM61
 Q428 8-729-102-07 TRANSISTOR 2SC2223

Q429 8-729-102-07 TRANSISTOR 2SC2223
 Q430 8-729-901-01 TRANSISTOR DTC144EK
 Q431 8-729-901-06 TRANSISTOR DTA144EK
 Q501 8-729-100-66 TRANSISTOR 2SC1623
 Q502 8-729-100-66 TRANSISTOR 2SC1623

Q503 8-729-100-66 TRANSISTOR 2SC1623
 Q504 8-729-100-66 TRANSISTOR 2SC1623
 Q505 8-729-100-66 TRANSISTOR 2SC1623
 Q506 8-729-100-66 TRANSISTOR 2SC1623
 Q507 8-729-100-66 TRANSISTOR 2SC1623

Q508 8-729-901-06 TRANSISTOR DTA144EK
 Q509 8-729-320-17 TRANSISTOR 2SA1122CD
 Q510 8-729-100-66 TRANSISTOR 2SC1623
 Q511 8-729-100-66 TRANSISTOR 2SC1623
 Q512 8-729-901-06 TRANSISTOR DTA144EK

Q513 8-729-100-66 TRANSISTOR 2SC1623
 Q514 8-729-100-66 TRANSISTOR 2SC1623
 Q515 8-729-100-66 TRANSISTOR 2SC1623
 Q516 8-729-901-01 TRANSISTOR DTC144EK
 Q517 8-729-100-66 TRANSISTOR 2SC1623
 Q518 8-729-901-06 TRANSISTOR DTA144EK
 Q519 8-729-100-66 TRANSISTOR 2SC1623
 Q520 8-729-901-01 TRANSISTOR DTC144EK



* A-7051-820-A HK-4 BOARD, COMPLETE

(DIODE)

D101 8-719-400-18 DIODE MA152WK
D102 8-719-400-18 DIODE MA152WK
D105 8-719-800-76 DIODE 1SS226
D106 8-719-400-18 DIODE MA152WK
D107 8-719-400-18 DIODE MA152WK

D108 8-719-400-18 DIODE MA152WK
D109 8-719-400-18 DIODE MA152WK
D301 8-719-400-18 DIODE MA152WK
D302 8-719-400-18 DIODE MA152WK
D401 8-719-400-18 DIODE MA152WK

D402 8-719-400-18 DIODE MA152WK
D403 8-719-400-18 DIODE MA152WK
D404 8-719-400-18 DIODE MA152WK
D405 8-719-400-18 DIODE MA152WK
D501 8-719-400-18 DIODE MA152WK

D701 8-719-104-34 DIODE 1S2836
D702 8-719-400-18 DIODE 1S2837
D801 8-719-400-18 DIODE 1S2837
D802 8-719-400-18 DIODE 1S2837
D803 8-719-104-34 DIODE 1S2836

D901 8-719-400-18 DIODE MA152WK

(IC)

IC101 8-759-233-94 IC TA8607F
IC102 8-759-925-60 IC BA401
IC299 8-759-239-58 IC TC74HC221AF
IC301 8-752-002-XX IC CX20030
IC401 8-752-031-01 IC CXA1047M

IC501 8-752-003-12 IC CX20031
IC601 8-752-202-10 IC CX22021
IC602 8-752-005-22 IC CX20032
IC603 8-759-914-56 IC CX20054
IC701 8-752-322-24 IC CXL1008M

IC801 8-752-322-24 IC CXL1008M
IC851 8-759-710-05 IC NM2238M
IC901 8-759-925-74 IC TC74HC04AF
IC902 8-759-925-74 IC TC74HC04AF

(TRANSISTOR)

O101 8-729-102-07 TRANSISTOR 2SC2223
O102 8-729-901-04 TRANSISTOR DTC144EK
O103 8-729-102-07 TRANSISTOR 2SC2223
O104 8-729-901-01 TRANSISTOR DTC144EK
O105 8-729-904-07 TRANSISTOR FMG2-T-148

O107 8-729-100-66 TRANSISTOR 2SC1623
O110 8-729-901-01 TRANSISTOR DTC144EK
O111 8-729-102-07 TRANSISTOR 2SC2223
O112 8-729-901-01 TRANSISTOR DTC144EK
O113 8-729-102-07 TRANSISTOR 2SC2223

O116 8-729-102-07 TRANSISTOR 2SC2223
O117 8-729-102-07 TRANSISTOR 2SC2223
O118 8-729-102-07 TRANSISTOR 2SC2223
O119 8-729-102-07 TRANSISTOR 2SC2223
O120 8-729-102-07 TRANSISTOR 2SC2223

O121 8-729-100-66 TRANSISTOR 2SC1623
O122 8-729-901-01 TRANSISTOR DTC144EK
O123 8-729-901-01 TRANSISTOR DTC144EK
O124 8-729-901-06 TRANSISTOR DTA144EK
O125 8-729-901-01 TRANSISTOR DTC144EK

O126 8-729-100-66 TRANSISTOR 2SC1623
O127 8-729-100-66 TRANSISTOR 2SC1623
O128 8-729-102-07 TRANSISTOR 2SC2223
O129 8-729-100-66 TRANSISTOR 2SC1623
O130 8-729-907-26 TRANSISTOR 1M1

O131 8-729-320-17 TRANSISTOR 2SA1122CD
O132 8-729-202-38 TRANSISTOR 2SC3326N
O133 8-729-907-46 TRANSISTOR FM2
O134 8-729-903-10 TRANSISTOR FM2
O184 8-729-320-17 TRANSISTOR 2SA1122CD

O201 8-729-102-07 TRANSISTOR 2SC2223
O202 8-729-202-38 TRANSISTOR 2SC3326N
O203 8-729-202-38 TRANSISTOR 2SC3326N
O204 8-729-904-07 TRANSISTOR FMG2
O206 8-729-122-63 TRANSISTOR 2SA1226

O207 8-729-202-38 TRANSISTOR 2SC3326N
O208 8-729-201-27 TRANSISTOR 2SC2715
O209 8-729-201-27 TRANSISTOR 2SC2715
O210 8-729-102-07 TRANSISTOR 2SC2223
O211 8-729-102-07 TRANSISTOR 2SC2223

O212 8-729-901-01 TRANSISTOR DTC144EK
O213 8-729-901-06 TRANSISTOR DTA144EK
O214 8-729-102-07 TRANSISTOR 2SC2223
O215 8-729-902-95 TRANSISTOR FMS1
O217 8-729-102-07 TRANSISTOR 2SC2223

O218 8-729-102-07 TRANSISTOR 2SC2223
O219 8-729-901-01 TRANSISTOR DTC144EK
O299 8-729-901-06 TRANSISTOR DTA144EK
O301 8-729-100-66 TRANSISTOR 2SC1623
O302 8-729-100-66 TRANSISTOR 2SC1623

O305 8-729-100-66 TRANSISTOR 2SC1623
O306 8-729-100-66 TRANSISTOR 2SC1623
O307 8-729-100-66 TRANSISTOR 2SC1623
O309 8-729-100-66 TRANSISTOR 2SC1623
O310 8-729-100-66 TRANSISTOR 2SC1623

O311 8-729-100-66 TRANSISTOR 2SC1623
O312 8-729-901-06 TRANSISTOR DTA144EK
O313 8-729-320-17 TRANSISTOR 2SA1122CD
O314 8-729-100-66 TRANSISTOR 2SC1623
O315 8-729-100-66 TRANSISTOR 2SC1623

O316 8-729-901-01 TRANSISTOR DTC144EK
O317 8-729-100-66 TRANSISTOR 2SC1623
O318 8-729-901-06 TRANSISTOR DTA144EK
O319 8-729-100-66 TRANSISTOR 2SC1623
O320 8-729-901-01 TRANSISTOR DTC144EK

O321 8-729-901-01 TRANSISTOR DTC144EK
O322 8-729-320-17 TRANSISTOR 2SA1122CD
O323 8-729-901-01 TRANSISTOR DTC144EK
O324 8-729-901-01 TRANSISTOR DTC144EK
O325 8-729-901-06 TRANSISTOR DTA144EK

O326 8-729-901-06 TRANSISTOR DTA144EK
O328 8-729-100-66 TRANSISTOR 2SC1623
O401 8-729-100-66 TRANSISTOR 2SC1623
O402 8-729-100-66 TRANSISTOR 2SC1623
O403 8-729-901-01 TRANSISTOR DTC144EK

O404 8-729-901-01 TRANSISTOR DTC144EK
O405 8-729-901-06 TRANSISTOR DTA144EK
O406 8-729-100-66 TRANSISTOR 2SC1623
O407 8-729-320-17 TRANSISTOR 2SA1122CD
O408 8-729-320-17 TRANSISTOR 2SA1122CD

O409 8-729-100-66 TRANSISTOR 2SC1623
O410 8-729-320-17 TRANSISTOR 2SA1122CD
O411 8-729-901-01 TRANSISTOR DTC144EK
O412 8-729-901-01 TRANSISTOR DTC144EK
O413 8-729-901-01 TRANSISTOR DTC144EK

O414 8-729-100-66 TRANSISTOR 2SC1623
O415 8-729-320-17 TRANSISTOR 2SA1122CD
O416 8-729-320-17 TRANSISTOR 2SA1122CD
O417 8-729-901-01 TRANSISTOR DTC144EK
O418 8-729-100-66 TRANSISTOR 2SC1623

O419 8-729-100-66 TRANSISTOR 2SC1623
O420 8-729-202-38 TRANSISTOR 2SC3326N
O421 8-729-202-38 TRANSISTOR 2SC3326N
O422 8-729-100-66 TRANSISTOR 2SC1623
O423 8-729-100-66 TRANSISTOR 2SC1623

O424 8-729-901-01 TRANSISTOR DTC144EK
O425 8-729-100-66 TRANSISTOR 2SC1623
O426 8-729-100-66 TRANSISTOR 2SC1623
O427 8-729-320-17 TRANSISTOR 2SA1122CD
O428 8-729-320-17 TRANSISTOR 2SA1122CD

O429 8-729-901-01 TRANSISTOR DTC144EK
O430 8-729-901-01 TRANSISTOR DTC144EK
O431 8-729-320-17 TRANSISTOR 2SA1122CD
O501 8-729-901-06 TRANSISTOR DTA144EK
O502 8-729-901-01 TRANSISTOR DTC144EK

O503 8-729-901-00 TRANSISTOR DTC144EK
O601 8-729-901-01 TRANSISTOR DTC144EK
O603 8-729-901-01 TRANSISTOR DTC144EK
O604 8-729-100-66 TRANSISTOR 2SC1623
O605 8-729-100-66 TRANSISTOR 2SC1623

O606 8-729-901-01 TRANSISTOR DTC144EK
O607 8-729-100-66 TRANSISTOR 2SC1623
O608 8-729-320-17 TRANSISTOR 2SA1122CD
O701 8-729-901-01 TRANSISTOR DTC144EK
O702 8-729-218-22 TRANSISTOR 2SA1162

O703 8-729-218-22 TRANSISTOR 2SA1162
O704 8-729-218-22 TRANSISTOR 2SA1162
O705 8-729-320-17 TRANSISTOR 2SA1122CD
O706 8-729-901-01 TRANSISTOR DTC144EK
O707 8-729-901-01 TRANSISTOR DTC144EK

O708 8-729-218-22 TRANSISTOR 2SA1162
O709 8-729-218-22 TRANSISTOR 2SA1162
O710 8-729-320-17 TRANSISTOR 2SA1122CD
O801 8-729-901-01 TRANSISTOR DTC144EK
O802 8-729-901-01 TRANSISTOR DTC144EK

O803 8-729-218-22 TRANSISTOR 2SA1162
O804 8-729-218-22 TRANSISTOR 2SA1162
O805 8-729-218-22 TRANSISTOR 2SA1162
O806 8-729-320-17 TRANSISTOR 2SA1122CD
O807 8-729-901-01 TRANSISTOR DTC144EK

O808 8-729-218-22 TRANSISTOR 2SA1162
O809 8-729-901-00 TRANSISTOR 2SA1162
O810 8-729-320-17 TRANSISTOR 2SA1122CD
O811 8-729-901-01 TRANSISTOR DTC144EK
O851 8-729-100-66 TRANSISTOR 2SC1623

O852 8-729-100-66 TRANSISTOR 2SC1623
O901 8-729-100-66 TRANSISTOR DTC144EK
O902 8-729-901-01 TRANSISTOR DTC144EK
O903 8-729-104-25 TRANSISTOR 2SB804-AV
O904 8-729-100-66 TRANSISTOR 2SC1623

* A-7061-920-A HK-4 BOARD, COMPLETE

(DIODE)

D101 8-719-400-18 DIODE MA152MK
D102 8-719-400-18 DIODE MA152MK
D105 8-719-800-78 DIODE 15S276
D106 8-719-400-18 DIODE MA152MK
D107 8-719-400-18 DIODE MA152MK

D108 8-719-400-18 DIODE MA152MK
D109 8-719-400-18 DIODE MA152MK
D301 8-719-400-18 DIODE MA152MK
D302 8-719-400-18 DIODE MA152MK
D401 8-719-400-18 DIODE MA152MK

D402 8-719-400-18 DIODE MA152MK
D403 8-719-400-18 DIODE MA152MK
D404 8-719-400-18 DIODE MA152MK
D405 8-719-400-18 DIODE MA152MK
D501 8-719-400-18 DIODE MA152MK

D701 8-719-104-34 DIODE 15S2836
D702 8-719-400-18 DIODE 15S2837
D801 8-719-400-18 DIODE 15S2837
D802 8-719-400-18 DIODE 15S2837
D803 8-719-104-34 DIODE 15S2836

D901 8-719-400-18 DIODE MA152MK

(IC)

IC101 8-759-233-94 IC TAB6507F
IC102 8-759-925-80 IC BA401
IC209 8-759-235-58 IC TC74HC221AF
IC301 8-752-002-XX IC CX0A30
IC401 8-752-031-01 IC CXA1047M

IC501 8-752-003-12 IC CX20031
IC601 8-752-202-10 IC CX22021
IC602 8-752-003-22 IC CX20032
IC603 8-759-914-56 IC CX23054
IC701 8-752-322-24 IC CX11008M

IC801 8-752-322-24 IC CX11008M
IC805 8-759-710-05 IC NJM2338M
IC901 8-759-925-74 IC TC74HC04AF
IC902 8-759-925-74 IC TC74HC04AF

(TRANSISTOR)

O101 8-729-102-07 TRANSISTOR 25C2223
O102 8-729-901-04 TRANSISTOR DTA1144E
O103 8-729-102-07 TRANSISTOR 25C2223
O104 8-729-901-01 TRANSISTOR DTC144E
O105 8-729-904-07 TRANSISTOR FMK2-T-148

O107 8-729-100-66 TRANSISTOR 25C1623
O110 8-729-901-01 TRANSISTOR DTC144E
O111 8-729-102-07 TRANSISTOR 25C2223
O112 8-729-901-01 TRANSISTOR DTC144E
O113 8-729-102-07 TRANSISTOR 25C2223

O116 8-729-102-07 TRANSISTOR 25C2223
O117 8-729-102-07 TRANSISTOR 25C2223
O118 8-729-102-07 TRANSISTOR 25C2223
O119 8-729-102-07 TRANSISTOR 25C2223
O120 8-729-102-07 TRANSISTOR 25C2223

O121 8-729-100-66 TRANSISTOR 25C1623
O122 8-729-901-01 TRANSISTOR DTC144E
O123 8-729-102-07 TRANSISTOR 25C1623
O124 8-729-901-06 TRANSISTOR DTA1144E
O125 8-729-901-01 TRANSISTOR DTC144E

O126 8-729-100-66 TRANSISTOR 25C1623
O127 8-729-100-66 TRANSISTOR 25C1623
O128 8-729-102-07 TRANSISTOR 25C2223
O129 8-729-100-66 TRANSISTOR 25C1623
O130 8-729-907-26 TRANSISTOR 1M1

O331 8-729-320-17 TRANSISTOR 25A1122CD
O332 8-729-100-66 TRANSISTOR 25C3326N
O181 8-729-907-46 TRANSISTOR 1M2
O182 8-729-903-10 TRANSISTOR FMK1
O184 8-729-320-17 TRANSISTOR 25A1122CD

O201 8-729-102-07 TRANSISTOR 25C2223
O202 8-729-202-38 TRANSISTOR 25C3326N
O203 8-729-202-38 TRANSISTOR 25C3326N
O204 8-729-904-07 TRANSISTOR FMK2
O206 8-729-122-63 TRANSISTOR 25A11228

O207 8-729-202-38 TRANSISTOR 25C3326N
O208 8-729-201-27 TRANSISTOR 25C2715
O209 8-729-201-27 TRANSISTOR 25C2715
O210 8-729-102-07 TRANSISTOR 25C2223
O211 8-729-102-07 TRANSISTOR 25C2223

O212 8-729-901-01 TRANSISTOR DTC144E
O213 8-729-901-06 TRANSISTOR DTA1144E
O214 8-729-102-07 TRANSISTOR 25C2223
O215 8-729-902-96 TRANSISTOR FM51
O217 8-729-102-07 TRANSISTOR 25C2223

O218 8-729-102-07 TRANSISTOR 25C2223
O219 8-729-901-01 TRANSISTOR DTC144E
O299 8-729-901-06 TRANSISTOR DTA1144E
O301 8-729-100-66 TRANSISTOR 25C1623
O302 8-729-100-66 TRANSISTOR 25C1623

O305 8-729-100-66 TRANSISTOR 25C1623
O306 8-729-100-66 TRANSISTOR 25C1623
O307 8-729-100-66 TRANSISTOR 25C1623
O309 8-729-100-66 TRANSISTOR 25C1623
O310 8-729-100-66 TRANSISTOR 25C1623

O311 8-729-100-66 TRANSISTOR 25C1623
O312 8-729-901-06 TRANSISTOR DTA1144E
O313 8-729-320-17 TRANSISTOR 25A1122CD
O314 8-729-100-66 TRANSISTOR 25C1623
O315 8-729-100-66 TRANSISTOR 25C1623

O316 8-729-901-01 TRANSISTOR DTC144E
O317 8-729-100-66 TRANSISTOR 25C1623
O318 8-729-901-06 TRANSISTOR DTA1144E
O319 8-729-100-66 TRANSISTOR 25C1623
O320 8-729-901-01 TRANSISTOR DTC144E

O321 8-729-901-01 TRANSISTOR DTC144E
O322 8-729-320-17 TRANSISTOR 25A1122CD
O323 8-729-901-01 TRANSISTOR DTC144E
O324 8-729-901-01 TRANSISTOR DTC144E
O325 8-729-901-06 TRANSISTOR DTA1144E

O326 8-729-901-06 TRANSISTOR DTA1144E
O328 8-729-100-66 TRANSISTOR 25C1623
O401 8-729-100-66 TRANSISTOR 25C1623
O402 8-729-100-66 TRANSISTOR 25C1623
O403 8-729-901-01 TRANSISTOR DTC144E

O404 8-729-901-01 TRANSISTOR DTC144E
O405 8-729-901-06 TRANSISTOR DTA1144E
O406 8-729-100-66 TRANSISTOR 25C1623
O407 8-729-320-17 TRANSISTOR 25A1122CD
O408 8-729-320-17 TRANSISTOR 25A1122CD

O409 8-729-100-66 TRANSISTOR 25C1623
O410 8-729-320-17 TRANSISTOR 25A1122CD
O411 8-729-901-01 TRANSISTOR DTC144E
O412 8-729-901-01 TRANSISTOR DTC144E
O413 8-729-901-01 TRANSISTOR DTC144E

O414 8-729-100-66 TRANSISTOR 25C1623
O415 8-729-320-17 TRANSISTOR 25A1122CD
O416 8-729-320-17 TRANSISTOR 25A1122CD
O417 8-729-901-01 TRANSISTOR DTC144E
O418 8-729-100-66 TRANSISTOR 25C1623

O419 8-729-100-66 TRANSISTOR 25C1623
O420 8-729-202-38 TRANSISTOR 25C3326N
O421 8-729-202-38 TRANSISTOR 25C3326N
O422 8-729-100-66 TRANSISTOR 25C1623
O423 8-729-100-66 TRANSISTOR 25C1623

O424 8-729-901-01 TRANSISTOR DTC144E
O425 8-729-100-66 TRANSISTOR 25C1623
O426 8-729-100-66 TRANSISTOR 25C1623
O427 8-729-320-17 TRANSISTOR 25A1122CD
O428 8-729-320-17 TRANSISTOR 25A1122CD

O429 8-729-901-01 TRANSISTOR DTC144E
O430 8-729-901-01 TRANSISTOR DTC144E
O431 8-729-320-17 TRANSISTOR 25A1122CD
O432 8-729-901-06 TRANSISTOR DTA1144E
O501 8-729-901-01 TRANSISTOR DTC144E

O503 8-729-901-00 TRANSISTOR DTC124E
O601 8-729-901-01 TRANSISTOR DTC144E
O603 8-729-901-01 TRANSISTOR DTC144E
O604 8-729-100-66 TRANSISTOR 25C1623
O605 8-729-100-66 TRANSISTOR 25C1623

O606 8-729-901-01 TRANSISTOR DTC144E
O607 8-729-100-66 TRANSISTOR 25C1623
O608 8-729-320-17 TRANSISTOR 25A1122CD
O701 8-729-901-01 TRANSISTOR DTC144E
O702 8-729-216-22 TRANSISTOR 25A1162

O703 8-729-901-01 TRANSISTOR DTC144E
O704 8-729-216-22 TRANSISTOR 25A1162
O705 8-729-320-17 TRANSISTOR 25A1122CD
O706 8-729-901-01 TRANSISTOR DTC144E
O707 8-729-901-01 TRANSISTOR DTC144E

O708 8-729-216-22 TRANSISTOR 25A1162
O709 8-729-216-22 TRANSISTOR 25A1162
O710 8-729-320-17 TRANSISTOR 25A1122CD
O801 8-729-901-01 TRANSISTOR DTC144E
O802 8-729-320-17 TRANSISTOR 25A1122CD

O803 8-729-216-22 TRANSISTOR 25A1162
O804 8-729-216-22 TRANSISTOR 25A1162
O805 8-729-216-22 TRANSISTOR 25A1162
O806 8-729-320-17 TRANSISTOR 25A1122CD
O807 8-729-901-01 TRANSISTOR DTC144E

O808 8-729-216-22 TRANSISTOR 25A1162
O809 8-729-216-22 TRANSISTOR 25A1162
O810 8-729-320-17 TRANSISTOR 25A1122CD
O811 8-729-901-01 TRANSISTOR DTC144E
O851 8-729-100-66 TRANSISTOR 25C1623

O852 8-729-100-66 TRANSISTOR 25C1623
O901 8-729-901-00 TRANSISTOR DTC124E
O902 8-729-901-01 TRANSISTOR DTC144E
O903 8-729-104-25 TRANSISTOR 25B804-AY
O904 8-729-100-66 TRANSISTOR 25C1623

HK-4 (C VIDEO PROCESS, Y VIDEO PROCESS, Y/C(AFM MIX) PRINT) D WIRING BO

— Ref No HK-4BOARD: 4000 series —

HK-4 BOARD (COMPONENT SIDE)

D404 D-2
D701 G-3
D803 G-8
D901 F-8

IC101 E-8
IC102 E-8
IC301 E-2
IC401 C-3
IC601 A-5
IC602 B-4
IC701 G-3
IC801 G-5
IC802 G-5
IC803 G-5

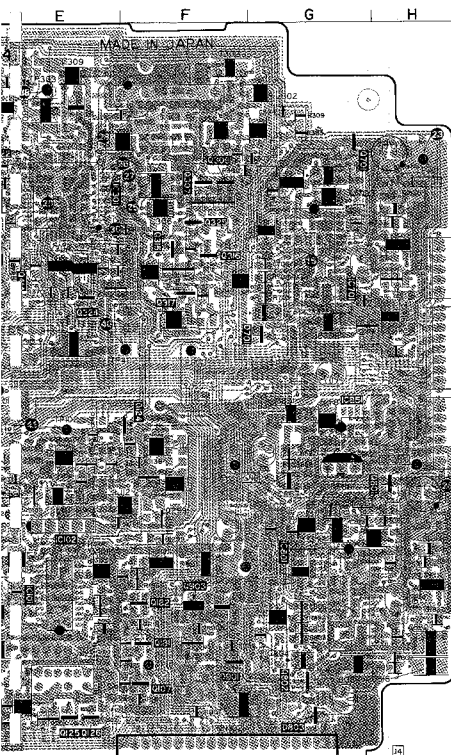
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IC112 D-5
IC124 F-4
IC125 E-6
IC126 E-6
IC130 D-5
IC182 E-5
IC202 D-4
IC203 D-4
IC204 D-4
IC216 F-2
IC219 D-4
IC306 F-2
IC307 F-2
IC316 F-2
IC317 F-2
IC322 D-2
IC323 D-1
IC324 E-9
IC325 F-2
IC402 C-3
IC403 F-2
IC413 D-1
IC414 E-3
IC417 D-2
IC422 D-3
IC423 C-3
IC429 D-1
IC430 D-1
IC602 A-5
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IC604 C-5
IC605 B-6
IC607 B-6
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IC998 F-2
IC999 F-2
IC1000 F-2

HK-4 BOARD (CONDUCTOR SIDE)

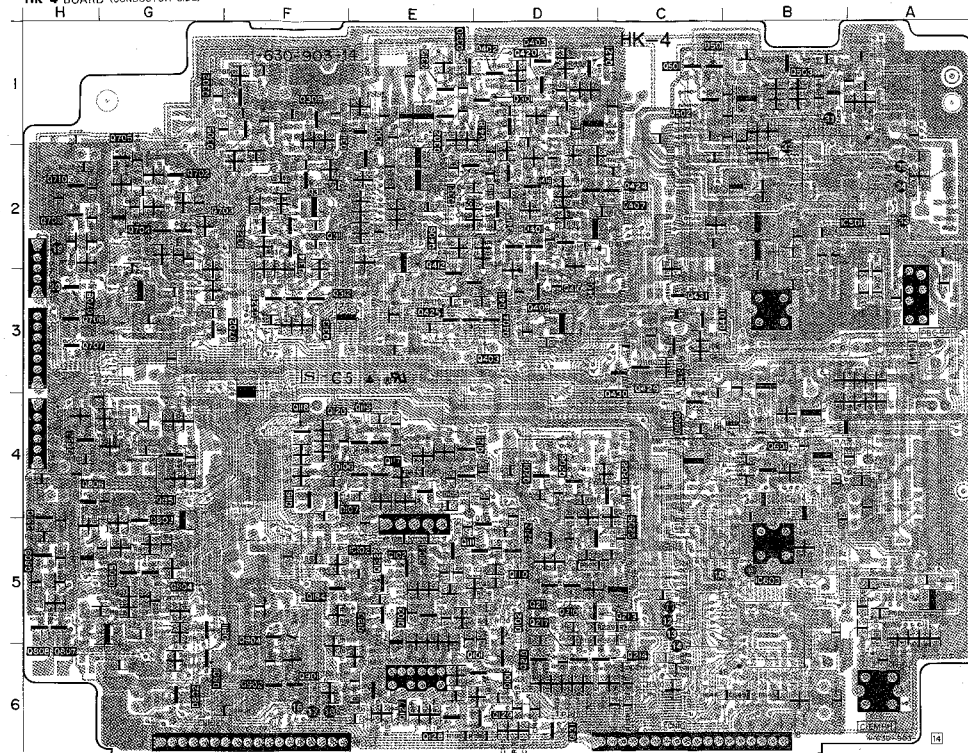
D404 D-2
D701 G-3
D803 G-8
D901 F-8

IC101 E-8
IC102 E-8
IC301 E-2
IC401 C-3
IC601 A-5
IC602 B-4
IC701 G-3
IC801 G-5
IC802 G-5
IC803 G-5

IC105 D-5
IC107 F-6
IC112 D-5
IC124 F-4
IC125 E-6
IC126 E-6
IC130 D-5
IC182 E-5
IC202 D-4
IC203 D-4
IC204 D-4
IC216 F-2
IC219 D-4
IC306 F-2
IC307 F-2
IC316 F-2
IC317 F-2
IC322 D-2
IC323 D-1
IC324 E-9
IC325 F-2
IC402 C-3
IC403 F-2
IC413 D-1
IC414 E-3
IC417 D-2
IC422 D-3
IC423 C-3
IC429 D-1
IC430 D-1
IC602 A-5
IC603 B-6
IC604 C-5
IC605 B-6
IC607 B-6
IC608 C-1
IC609 F-2
IC610 F-2
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IC724 F-2
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IC732 F-2



HK-4 BOARD (CONDUCTOR SIDE)

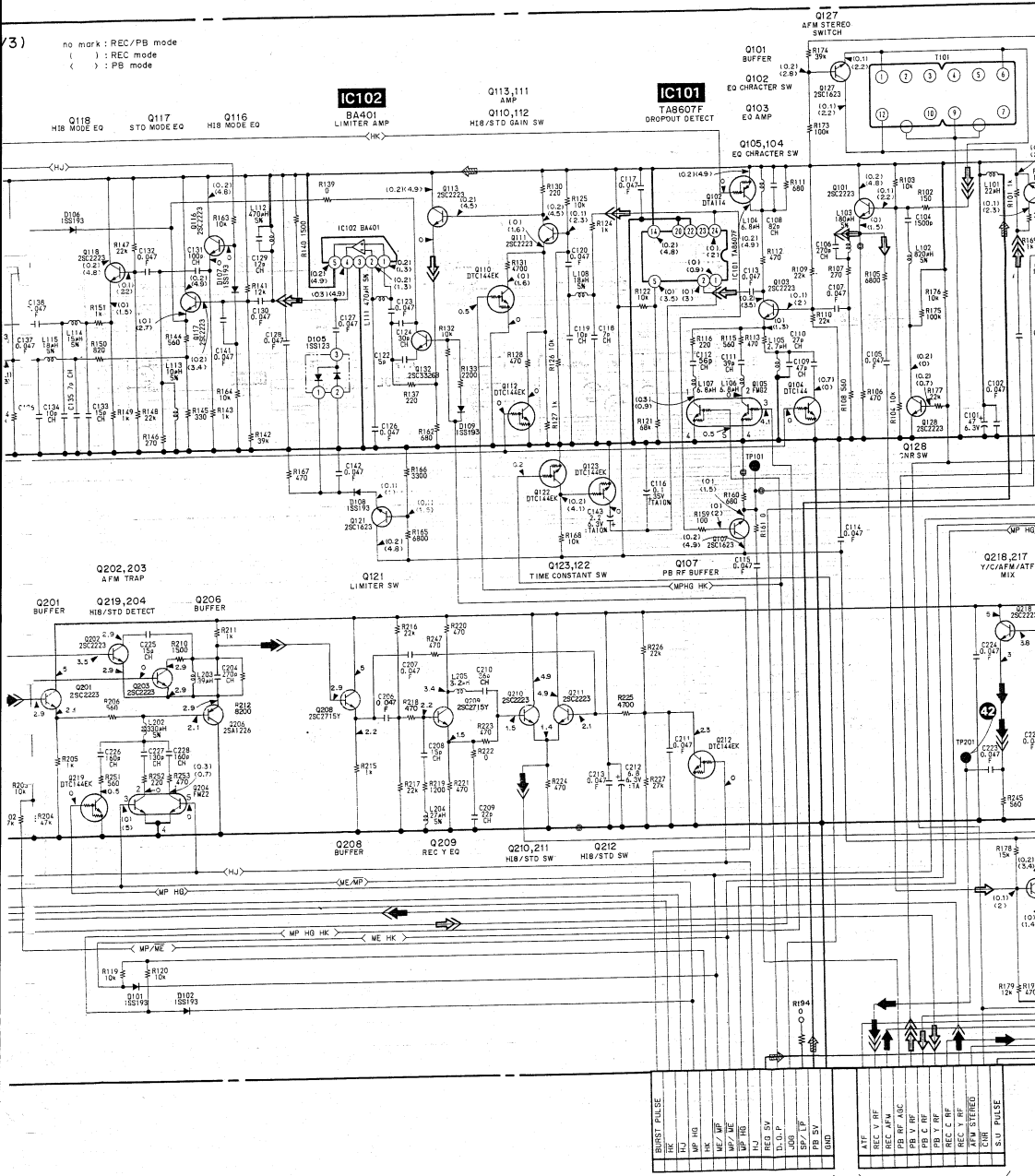


() : PB mode

IC102 Q113,111 AMR IC101



3) no mark: REC/PB mode
() : REC mode
() : PB mode





41

Diagram of TP102 P8 connector showing a side view of a multi-pin connector. The length is dimensioned as H and the pin pitch is dimensioned as $0.6V-P$.

TP102 P8

42

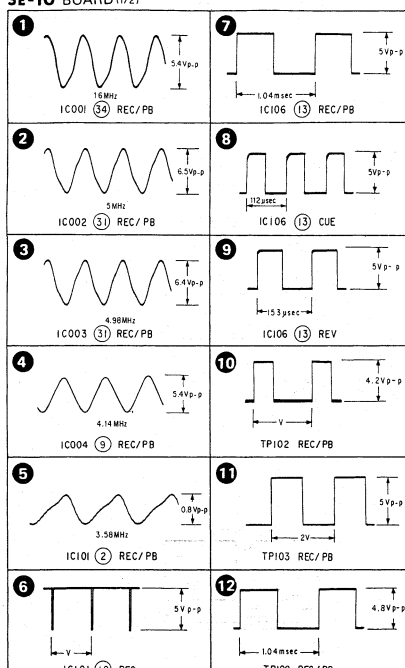
Diagram of TP201 REC connector showing a side view of a multi-pin connector. The length is dimensioned as $2V$ and the pin pitch is dimensioned as $0.8V-P$.







TP201 REC



	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	➡➡	➡➡➡	➡
PB	➡	➡➡	➡➡➡	➡

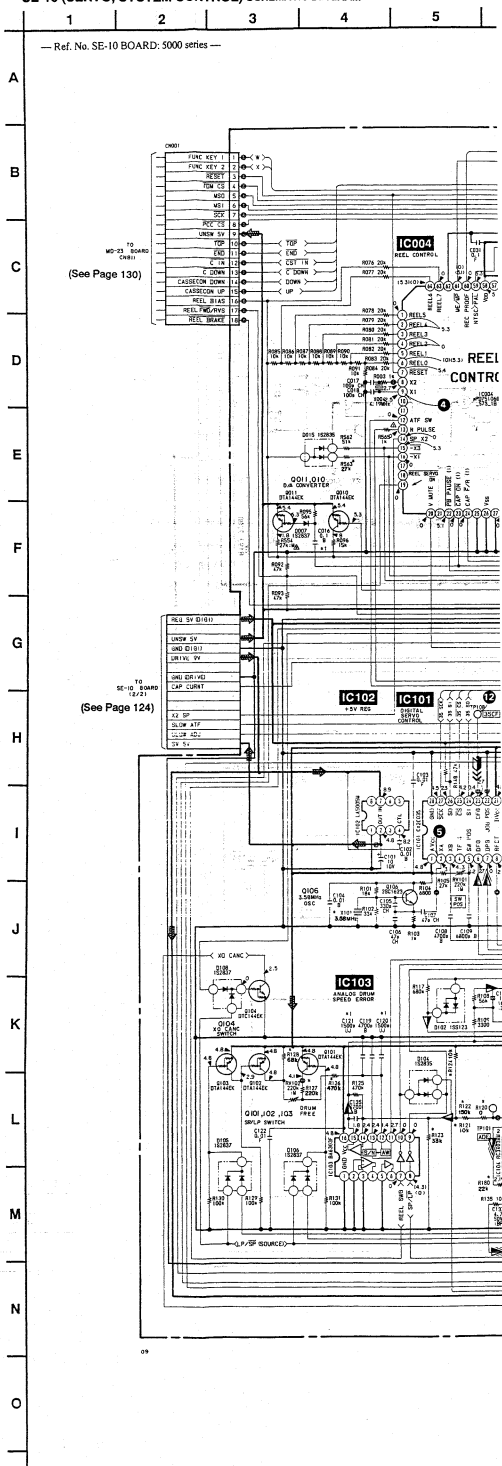
SE-10 BOARD (1/2)



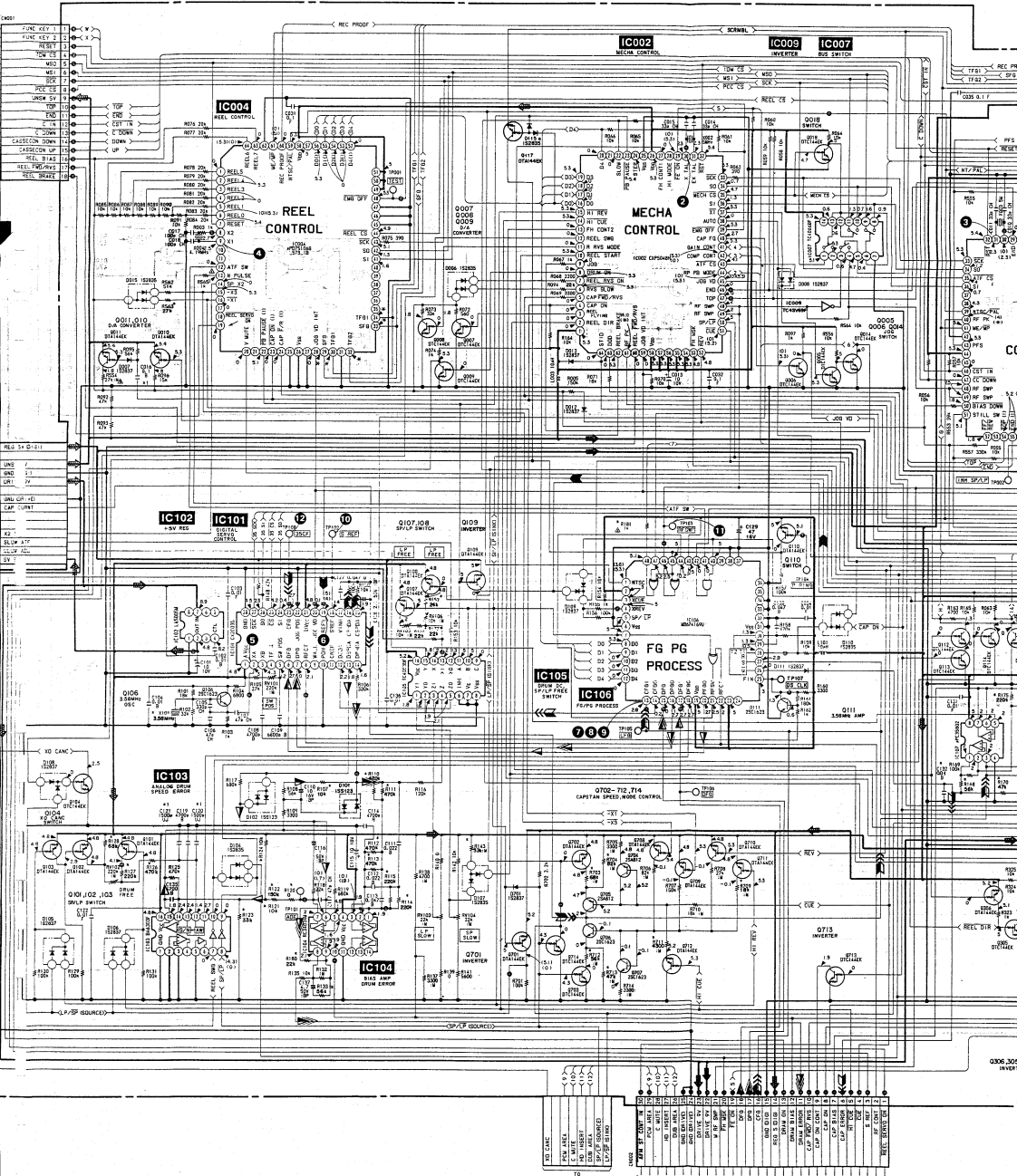
	REC	REC/PB	PB
Drum speed servo			
Drum phase servo			
Drum servo (speed and phase)			
Capstan speed servo			
Capstan phase servo			
Capstan servo (speed and phase)			

SE-10 (SERVO, SYSTEM CONTROL) SCHEMATIC DIAGRAM

— Ref. No. SE-10 BOARD: 5000 series —









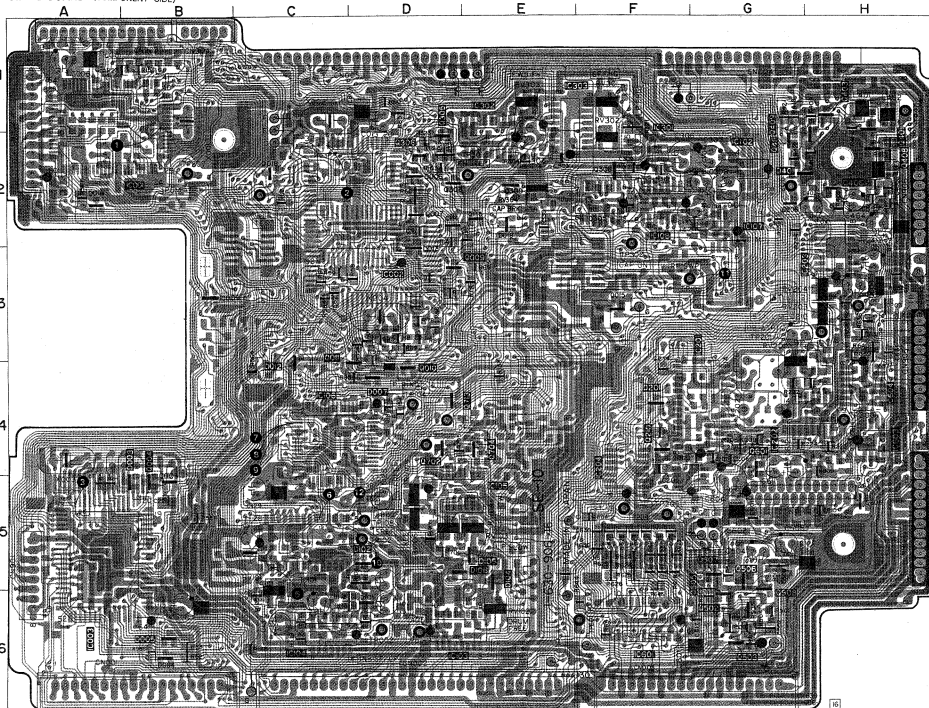
SE-10 (SERVO, SYSTEM CONTROL, ATF SERVO, HEAD SELECT), IG-4 (LINK) PRINTED WIRING BOARDS

— Ref. No. SE-10 BOARD: 5000 series, IG-4 BOARD: 6000 series —

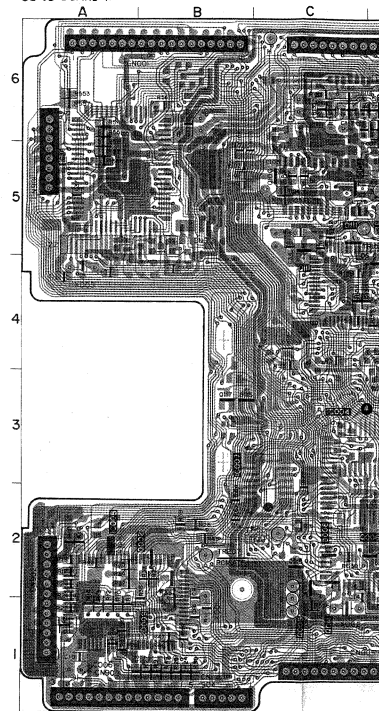
SE-10 BOARD
(COMPONENT
SIDE)

D003	B-5	D008	C-2
D004	B-6	D009	B-1
D005	B-6	D015	B-4
D012	B-2	D107	D-5
D007	D-4	D108	D-5
D013	D-3	D109	D-4
D016	D-4	D110	D-4
D101	D-6	D111	E-5
D109	A-2	D112	F-3
D103	D-5	D203	H-3
D105	E-5	D301	E-1
D201	F-4	D302	E-2
D401	G-2	D701	E-5
IC001	B-2	IC004	C-3
IC002	D-3	IC007	C-3
IC003	A-5	IC008	A-2
IC101	A-5	IC304	F-3
IC102	G-2	Q002	B-2
IC103	D-6	Q005	C-1
IC104	C-6	Q008	D-2
IC105	C-4	Q014	D-2
IC106	C-4	Q101	E-6
IC107	G-2	Q102	E-5
IC108	F-2	Q103	E-5
IC201	G-4	Q104	D-5
IC202	G-4	Q105	D-5
IC203	H-3	Q106	D-4
IC204	F-4	Q107	D-4
IC205	F-4	Q108	D-4
IC301	F-2	Q111	C-4
IC302	E-2	Q112	C-4
IC303	E-1	Q113	D-1
IC305	E-3	Q115	D-1
IC801	F-6	Q116	F-2
IC802	G-5	Q118	F-2
IC803	H-4	Q205	H-3
IC804	H-4	Q209	F-3
Q003	B-4	Q301	F-3
Q004	B-4	Q302	D-2
Q005	B-3	Q304	D-2
Q008	H-3	Q402	H-1
Q010	C-3	Q404	H-1
Q011	C-3	Q405	H-1
Q018	D-3	Q407	H-2
Q019	D-3	Q410	H-2
Q114	D-2	Q504	G-6
Q210	F-2	Q605	G-6
Q303	D-2	Q701	D-4
Q305	D-2	Q703	D-4
Q306	D-2	Q705	D-4
Q308	D-2	Q706	D-4
Q309	E-2	Q707	D-4
Q401	E-2	Q708	D-4
Q403	H-1	Q709	D-4
Q406	H-2	Q710	D-4
Q408	H-2	Q711	D-4
Q411	G-2	Q712	D-4
Q502	G-6	Q714	D-4
Q503	G-6		
Q504	G-6		
Q505	G-6		
Q506	G-6		
Q507	G-6		
Q508	G-6		
Q601	C-3		
Q604	C-3		
Q606	C-3		
Q704	D-4		
Q713	D-4		

SE-10 BOARD (COMPONENT SIDE)



SE-10 BOARD (CONDUCTOR SIDE)



IG-4 BOARD (CONDUCTOR SIDE)



* A-7061-823-A SE-10 BOARD, COMPLETE

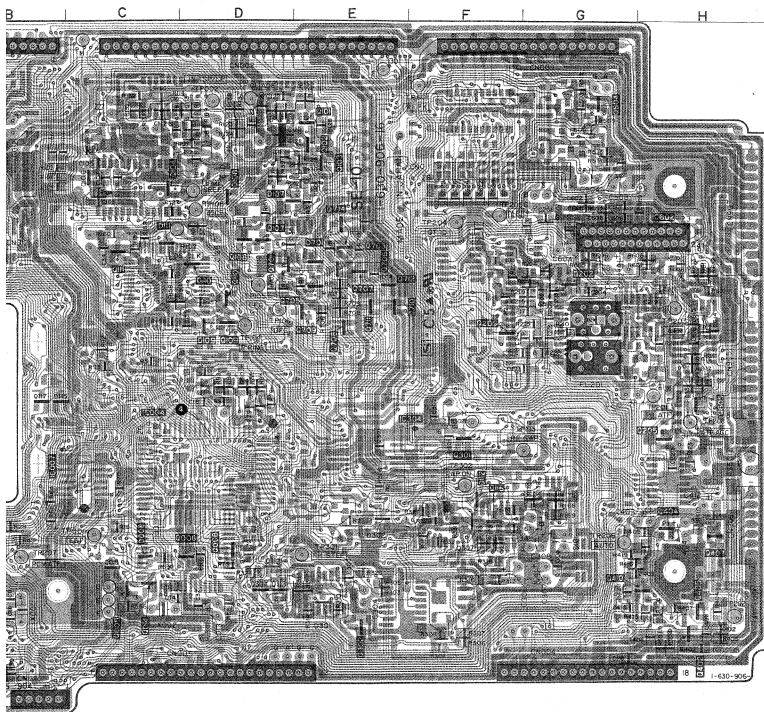
(DIODE)

D003	8-719-400-18 DIODE MA152WK
D004	8-719-400-18 DIODE MA152WK
D005	8-719-400-18 DIODE MA152WK
D006	8-719-104-34 DIODE 1S2836
D007	8-719-400-18 DIODE MA152WK
D008	8-719-400-18 DIODE MA152WK
D009	8-719-400-18 DIODE MA152WK
D012	8-719-400-18 DIODE MA152WK
D013	8-719-400-18 DIODE MA152WK
D015	8-719-104-34 DIODE 1S2836
D016	8-719-104-34 DIODE 1S2836
D018	8-719-400-18 DIODE MA152WK
D101	8-719-800-76 DIODE 1SS226
D102	8-719-800-76 DIODE 1SS226
D104	8-719-104-34 DIODE 1S2836
D105	8-719-400-18 DIODE MA152WK
D106	8-719-400-18 DIODE MA152WK
D107	8-719-104-34 DIODE 1S2836
D108	8-719-400-18 DIODE MA152WK
D109	8-719-400-18 DIODE MA152WK
D110	8-719-104-34 DIODE 1S2836
D111	8-719-400-18 DIODE MA152WK
D112	8-719-104-34 DIODE 1S2836
D115	8-719-104-34 DIODE 1S2836
D201	8-719-400-18 DIODE MA152WK
D203	8-719-105-82 DIODE R05.1M
D203	8-719-105-82 DIODE R05.1M
D301	8-719-400-18 DIODE MA152WK
D302	8-719-400-18 DIODE MA152WK
D401	8-719-800-76 DIODE 1SS226
D701	8-719-400-18 DIODE MA152WK
IC001	8-752-616-72 IC CXP80116-6920
IC002	8-752-617-63 IC CXP5048H-2430
IC003	8-752-615-13 IC CXP5048H-2220
IC004	8-759-144-21 IC JP075106G-573
IC007	8-759-008-67 IC TC4066BF
IC008	8-759-937-56 IC S-8054ALB-LM
IC009	8-759-209-15 IC TC4U69F
IC101	8-752-003-50 IC CX2003S
IC102	8-759-803-47 IC LA5005M
IC103	8-759-925-66 IC BA6303F
IC104	8-759-981-75 IC RC3403AM
IC105	8-759-300-71 IC TC4053BF
IC106	8-759-971-25 IC MB674169U
IC107	8-759-100-94 IC JPC35862
IC108	8-759-008-67 IC TC4066BF

(IC)

IC201	8-759-928-56 IC CXA1042M
IC202	8-759-150-05 IC JPC32462
IC203	8-759-300-71 IC TC4053BF
IC204	8-759-927-46 IC SN74HC00ANS
IC206	8-759-035-93 IC TC7532F
IC301	8-759-100-94 IC JPC35862
IC302	8-759-300-71 IC TC4053BF
IC303	8-759-300-71 IC TC4053BF
IC304	8-759-200-90 IC TC4538BF
IC305	8-759-927-46 IC SN74HC00ANS
IC601	8-759-927-94 IC BU5707F
IC602	8-759-927-52 IC BA7036LS
IC603	8-759-100-93 IC JPC39362
IC604	8-759-150-05 IC JPC32462
IC651	8-759-711-79 IC NJM2233BM
0002	8-729-901-01 TRANSISTOR DTC144EK
0003	8-729-901-06 TRANSISTOR DTA144EK
0004	8-729-901-01 TRANSISTOR DTC144EK
0005	8-729-901-01 TRANSISTOR DTC144EK
0006	8-729-901-01 TRANSISTOR DTC144EK
0007	8-729-901-01 TRANSISTOR DTC144EK
0008	8-729-901-01 TRANSISTOR DTC144EK
0009	8-729-901-01 TRANSISTOR DTC144EK
0010	8-729-901-06 TRANSISTOR DTA144EK
0011	8-729-901-06 TRANSISTOR DTA144EK
0014	8-729-901-01 TRANSISTOR DTC144EK
0015	8-729-901-01 TRANSISTOR DTC144EK
0018	8-729-901-01 TRANSISTOR DTC144EK
0101	8-729-901-06 TRANSISTOR DTA144EK
0102	8-729-901-06 TRANSISTOR DTA144EK
0103	8-729-901-06 TRANSISTOR DTA144EK
0104	8-729-901-01 TRANSISTOR DTC144EK
0106	8-729-100-66 TRANSISTOR 2SC1623
0107	8-729-901-06 TRANSISTOR DTA144EK
0108	8-729-901-06 TRANSISTOR DTA144EK
0109	8-729-901-06 TRANSISTOR DTA144EK
0110	8-729-901-06 TRANSISTOR DTA144EK
0111	8-729-100-66 TRANSISTOR 2SC1623
0112	8-729-901-01 TRANSISTOR DTC144EK
0113	8-729-901-01 TRANSISTOR DTC144EK
0114	8-729-901-01 TRANSISTOR DTC144EK
0115	8-729-901-01 TRANSISTOR DTC144EK
0116	8-729-901-06 TRANSISTOR DTA144EK
0117	8-729-901-06 TRANSISTOR DTA144EK
0202	8-729-216-22 TRANSISTOR 2SA1162
0205	8-729-901-01 TRANSISTOR DTC144EK
0209	8-729-901-06 TRANSISTOR DTA144EK
0210	8-729-901-01 TRANSISTOR DTC144EK
0301	8-729-901-06 TRANSISTOR DTA144EK
0302	8-729-901-01 TRANSISTOR DTC144EK

0303	8-729-901-01 TRANSISTOR DTC144EK
0304	8-729-901-01 TRANSISTOR DTC144EK
0305	8-729-901-01 TRANSISTOR DTC144EK
0306	8-729-901-06 TRANSISTOR DTA144EK
0307	8-729-901-01 TRANSISTOR DTC144EK
0308	8-729-901-01 TRANSISTOR DTC144EK
0309	8-729-901-01 TRANSISTOR DTC144EK
0401	8-729-216-22 TRANSISTOR 2SA1162
0402	8-729-100-66 TRANSISTOR 2SC1623
0403	8-729-100-66 TRANSISTOR 2SC1623
0404	8-729-216-22 TRANSISTOR 2SA1162
0405	8-729-100-66 TRANSISTOR 2SC1623
0406	8-729-216-22 TRANSISTOR 2SA1162
0407	8-729-100-66 TRANSISTOR 2SC1623
0408	8-729-216-22 TRANSISTOR 2SA1162
0409	8-729-100-66 TRANSISTOR 2SC1623
0410	8-729-100-66 TRANSISTOR 2SC1623
0411	8-729-100-66 TRANSISTOR 2SC1623
0502	8-729-100-66 TRANSISTOR 2SC1623
0503	8-729-901-06 TRANSISTOR DTA144EK
0504	8-729-100-66 TRANSISTOR 2SC1623
0505	8-729-100-66 TRANSISTOR 2SC1623
0506	8-729-100-66 TRANSISTOR 2SC1623
0507	8-729-901-06 TRANSISTOR DTA144EK
0508	8-729-901-06 TRANSISTOR DTA144EK
0601	8-729-901-06 TRANSISTOR DTA144EK
0604	8-729-805-25 TRANSISTOR 2SB1121
0605	8-729-100-66 TRANSISTOR 2SC1623
0606	8-729-901-06 TRANSISTOR DTA144EK
0701	8-729-901-06 TRANSISTOR DTA144EK
0702	8-729-901-06 TRANSISTOR DTA144EK
0703	8-729-901-01 TRANSISTOR DTC144EK
0704	8-729-216-22 TRANSISTOR 2SA1162
0705	8-729-216-22 TRANSISTOR 2SA1162
0706	8-729-100-66 TRANSISTOR 2SC1623
0707	8-729-100-66 TRANSISTOR 2SC1623
0708	8-729-901-06 TRANSISTOR DTA144EK
0709	8-729-901-06 TRANSISTOR DTA144EK
0710	8-729-901-06 TRANSISTOR DTA144EK
0711	8-729-901-06 TRANSISTOR DTA144EK
0712	8-729-901-06 TRANSISTOR DTA144EK
0713	8-729-901-01 TRANSISTOR DTC144EK
0714	8-729-901-01 TRANSISTOR DTC144EK



SE-10 (SERVO, SYSTEM CONTROL, ATF SERVO, HEAD SELECT), IG-4 (LINK) PRINTED WIRING BOARDS

— Ref. No. SE-10 BOARD: 5000 series, IG-4 BOARD: 6000 series —

* A-7061-823-A SE-10 BOARD, COMPLETE

(D IODE)

C 3 8-719-400-18 DIODE MA152WK
C 4 8-719-400-18 DIODE MA152WK
D0U5 8-719-400-18 DIODE MA152WK
D006 8-719-104-34 DIODE 1S2836
D 7 8-719-400-18 DIODE MA152WK

D008 8-719-400-18 DIODE MA152WK
D0N9 8-719-400-18 DIODE MA152WK
C 2 8-719-400-18 DIODE MA152WK
C 3 8-719-400-18 DIODE MA152WK
D015 8-719-104-34 DIODE 1S2836

C 16 8-719-104-34 DIODE 1S2836
Dw,8 8-719-400-18 DIODE MA152WK
D101 8-719-800-76 DIODE 1SS226
C 2 8-719-800-76 DIODE 1SS226
C 4 8-719-104-34 DIODE 1S2836

D105 8-719-400-18 DIODE MA152WK
C 16 8-719-400-18 DIODE MA152WK
C 17 8-719-104-34 DIODE 1S2836
D108 8-719-400-18 DIODE MA152WK
D1N9 8-719-400-18 DIODE MA152WK

C 1,0 8-719-104-34 DIODE 1S2836
D111 8-719-400-18 DIODE MA152WK
C 12 8-719-104-34 DIODE 1S2836
C 15 8-719-104-34 DIODE 1S2836
Dw,1 8-719-400-18 DIODE MA152WK

C 3 8-719-105-82 DIODE R05.1W
C 13 8-719-105-83 DIODE R05.1W
D301 8-719-400-18 DIODE MA152WK
D3N2 8-719-400-18 DIODE MA152WK
C 1 8-719-800-76 DIODE 1SS226

D701 8-719-400-18 DIODE MA152WK

(IC)

101 8-752-816-72 IC CXP80116-6920
102 8-752-817-63 IC CXP5048H-2430
1003 8-752-819-13 IC CXP5048H-2220
1C004 8-759-144-21 IC UPD75106E-573
107 8-759-008-67 IC TC4068BF

1C008 8-759-837-58 IC S-9054ALB-LM
1C009 8-759-209-15 IC TC45089F
101 8-752-003-50 IC CX20035
102 8-759-803-47 IC LAS005M
1C103 8-759-925-66 IC BA6303F

104 8-759-981-75 IC RC3403AM
105 8-759-300-71 IC TC40538F
1C106 8-759-971-25 IC M68741GSJ
107 8-759-100-94 IC UPD5862
108 8-759-008-67 IC TC4068BF

1C201 8-759-928-56 IC CX1042M
1C202 8-759-150-05 IC UPD324G2
1C203 8-759-300-71 IC TC40538F
1C204 8-759-927-46 IC SN74HC00ANS
1C206 8-759-935-93 IC TC7532ZF

1C301 8-759-100-94 IC UPD358G2
1C302 8-759-300-71 IC TC40538F
1C303 8-759-300-71 IC TC40538F
1C304 8-759-200-90 IC TC4538BF
1C305 8-759-927-46 IC SN74HC00ANS

1C601 8-759-927-94 IC BU3707F
1C602 8-759-927-52 IC BA7036LS
1C603 8-759-100-93 IC UPD393G2
1C604 8-759-150-05 IC UPD324G2
1C651 8-759-711-79 IC NJM2338M

(TRANSISTOR)

0002 8-729-901-01 TRANSISTOR DTC144EK
0003 8-729-901-06 TRANSISTOR DTA144EK
0004 8-729-901-01 TRANSISTOR DTC144EK
0005 8-729-901-01 TRANSISTOR DTC144EK
0006 8-729-901-01 TRANSISTOR DTC144EK

0007 8-729-901-01 TRANSISTOR DTC144EK
0008 8-729-901-01 TRANSISTOR DTC144EK
0009 8-729-901-01 TRANSISTOR DTC144EK
0010 8-729-901-06 TRANSISTOR DTA144EK
0011 8-729-901-06 TRANSISTOR DTA144EK

0014 8-729-901-01 TRANSISTOR DTC144EK
0015 8-729-901-01 TRANSISTOR DTC144EK
0018 8-729-901-01 TRANSISTOR DTC144EK
0101 8-729-901-06 TRANSISTOR DTA144EK
0102 8-729-901-06 TRANSISTOR DTA144EK

0103 8-729-901-06 TRANSISTOR DTA144EK
0104 8-729-901-01 TRANSISTOR DTC144EK
0106 8-729-100-66 TRANSISTOR 2SC1623
0107 8-729-901-06 TRANSISTOR DTA144EK
0108 8-729-901-06 TRANSISTOR DTA144EK

0109 8-729-901-06 TRANSISTOR DTA144EK
0110 8-729-901-06 TRANSISTOR DTA144EK
0111 8-729-100-66 TRANSISTOR 2SC1623
0112 8-729-901-01 TRANSISTOR DTC144EK
0113 8-729-901-01 TRANSISTOR DTC144EK

0114 8-729-901-01 TRANSISTOR DTC144EK
0115 8-729-901-01 TRANSISTOR DTC144EK
0116 8-729-901-06 TRANSISTOR DTA144EK
0117 8-729-901-06 TRANSISTOR DTA144EK
0202 8-729-216-22 TRANSISTOR 2SA1162

0205 8-729-901-01 TRANSISTOR DTC144EK
0209 8-729-901-06 TRANSISTOR DTA144EK
0210 8-729-901-01 TRANSISTOR DTC144EK
0301 8-729-901-06 TRANSISTOR DTA144EK
0302 8-729-901-01 TRANSISTOR DTC144EK

0303 8-729-901-01 TRANSISTOR DTC144EK
0304 8-729-901-01 TRANSISTOR DTC144EK
0305 8-729-901-01 TRANSISTOR DTC144EK
0306 8-729-901-06 TRANSISTOR DTA144EK
0307 8-729-901-01 TRANSISTOR DTC144EK

0308 8-729-901-01 TRANSISTOR DTC144EK
0309 8-729-901-01 TRANSISTOR DTC144EK
0401 8-729-216-22 TRANSISTOR 2SA1162
0402 8-729-100-66 TRANSISTOR 2SC1623
0403 8-729-100-66 TRANSISTOR 2SC1623

0404 8-729-216-22 TRANSISTOR 2SA1162
0405 8-729-100-66 TRANSISTOR 2SC1623
0406 8-729-216-22 TRANSISTOR 2SA1162
0407 8-729-100-66 TRANSISTOR 2SC1623
0408 8-729-216-22 TRANSISTOR 2SA1162

0409 8-729-100-66 TRANSISTOR 2SC1623
0410 8-729-100-66 TRANSISTOR 2SC1623
0411 8-729-100-66 TRANSISTOR 2SC1623
0502 8-729-100-66 TRANSISTOR 2SC1623
0503 8-729-901-06 TRANSISTOR DTA144EK

0504 8-729-100-66 TRANSISTOR 2SC1623
0505 8-729-100-66 TRANSISTOR 2SC1623
0506 8-729-100-66 TRANSISTOR 2SC1623
0507 8-729-901-06 TRANSISTOR DTA144EK
0508 8-729-901-06 TRANSISTOR DTA144EK

0601 8-729-901-06 TRANSISTOR DTA144EK
0604 8-729-805-25 TRANSISTOR 2SB1121
0605 8-729-100-66 TRANSISTOR 2SC1623
0606 8-729-901-06 TRANSISTOR DTA144EK
0701 8-729-901-06 TRANSISTOR DTA144EK

0702 8-729-901-06 TRANSISTOR DTA144EK
0703 8-729-901-01 TRANSISTOR DTC144EK
0704 8-729-216-22 TRANSISTOR 2SA1162
0705 8-729-216-22 TRANSISTOR 2SA1162
0706 8-729-100-66 TRANSISTOR 2SC1623

0707 8-729-100-66 TRANSISTOR 2SC1623
0709 8-729-901-06 TRANSISTOR DTA144EK
0710 8-729-901-06 TRANSISTOR DTA144EK
0711 8-729-901-06 TRANSISTOR DTA144EK

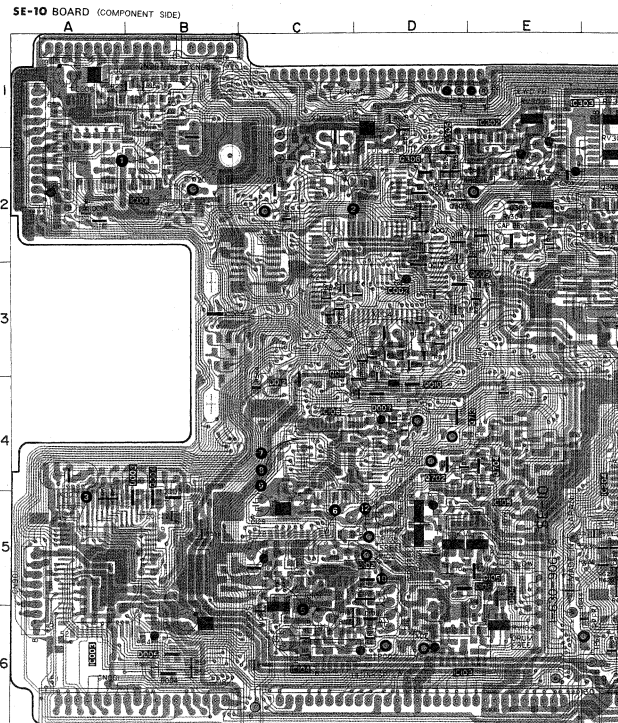
0712 8-729-901-06 TRANSISTOR DTA144EK
0713 8-729-901-01 TRANSISTOR DTC144EK
0714 8-729-901-01 TRANSISTOR DTC144EK

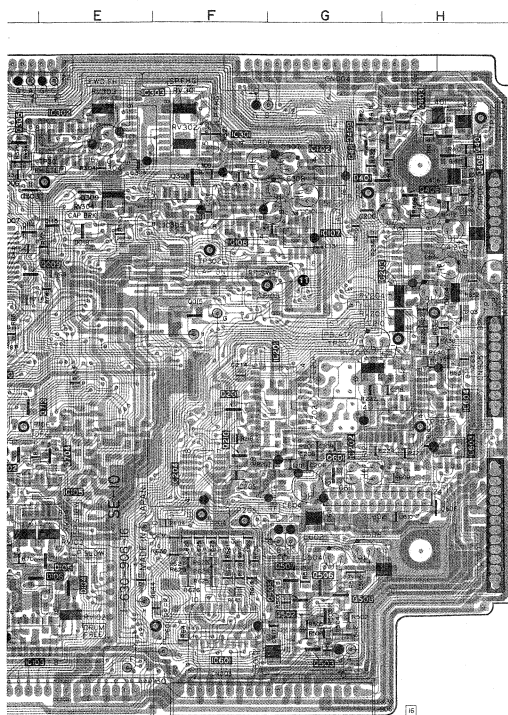
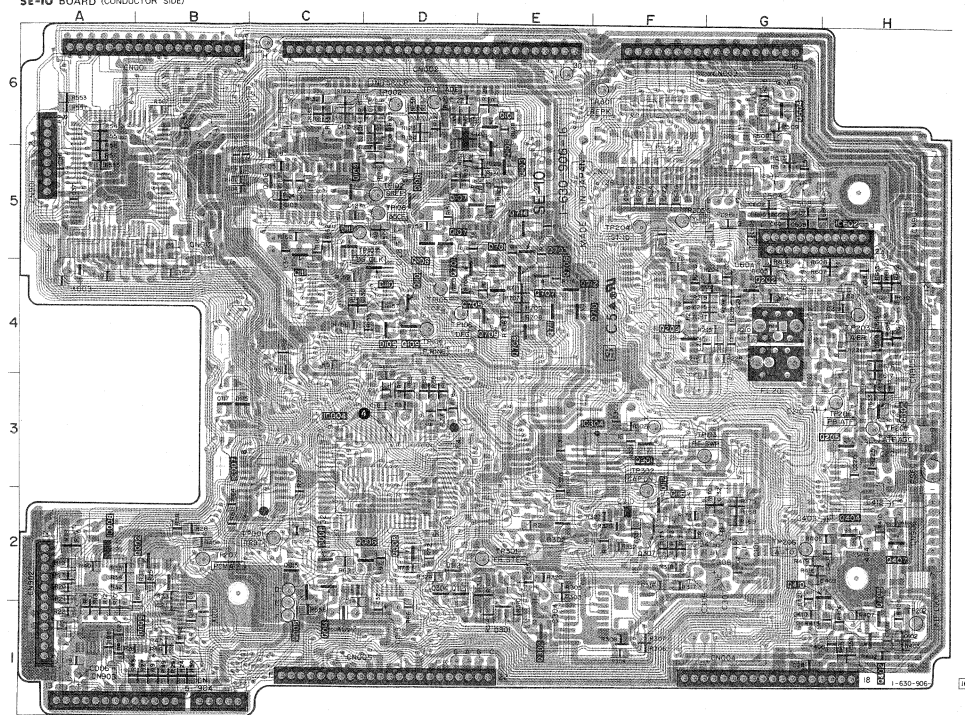
SE-10 BOARD (COMPONENT SIDE)
D003 B-5
D004 B-6
D005 B-6
D006 D-2
D007 D-4
D012 C-4
D013 D-3
D016 A-2
D101 D-6
D102 D-5
D103 D-5
D104 E-5
D105 E-5
D201 F-6
D401 G-2

IC001 B-2
IC002 D-3
IC003 A-5
IC101 C-5
IC102 G-2
IC103 D-6
IC104 C-6
IC105 E-5
IC106 A-2
IC107 G-2
IC108 F-2
IC201 G-4
IC202 G-4
IC203 H-3
IC204 F-4
IC205 F-4
IC301 F-2
IC302 E-2
IC303 E-1
IC305 E-3
IC501 F-6
IC602 G-5
IC603 H-4
IC604 H-4

SE-10 BOARD (CONDUCTOR SIDE)
D008 C-2
D009 B-4
D010 B-4
D017 D-5
D108 D-5
D109 D-4
D110 D-4
D111 C-5
D112 F-3
D203 H-3
D201 G-5
D302 E-2
D301 E-1
IC004 C-3
IC007 C-3
IC008 A-2
IC304 F-3

0002 B-2
0006 C-1
0006 D-2
0006 D-2
0014 C-1
0101 E-6
0102 E-6
0103 E-5
0104 C-5
0106 B-5
0107 D-5
0108 F-4
0110 A-4
0111 D-4
0112 D-2
0113 D-1
0115 E-2
0116 F-2
0202 G-4
0203 E-4
0209 F-4
0301 F-3
0302 E-1
0304 D-2
0307 D-2
0402 H-1
0403 H-1
0405 H-1
0407 H-2
0410 C-2
0410 D-2
0504 G-6
0605 H-3
0703 D-4
0703 E-5
0705 H-4
0706 E-4
0707 E-4
0708 E-4
0709 E-4
0710 E-4
0711 E-4
0712 E-4
0714 E-5



**5E-10 BOARD (CONDUCTOR SIDE)**

IG-4 BOARD (CONDUCTOR SIDE)



SE-10 (ATF SERVO, HEAD SELECT), IG-4 (LINK) SCHEMATIC DIAGRAMS

— Ref. No. SE-10 BOARD: 5000 series, IG-4 BOARD: 6000 series —

(See Page 112, 114)

(See Page 76)

SE-10 BOARD (2/2)

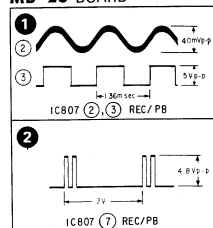
(See Page 112)

(See Page 131)

(See Page 184)

(See Page 112)

MD-23 BOARD



* A-7061-819-A MD-23 BOARD, COMPLETE

(DIODE)

D803	8-719-200-27 DIODE E100S2
D810	8-719-400-18 DIODE MA152WK
D811	8-719-200-27 DIODE E100S2
D901	8-719-400-18 DIODE MA152WK
D902	8-719-400-18 DIODE MA152WK
D903	8-719-400-18 DIODE MA152WK
D904	8-719-800-76 DIODE 1SS226
D905	8-719-400-18 DIODE MA152WK

(IC)

IC801	8-752-037-08 IC CXA1109M
IC802	8-759-802-79 IC LB1816M
IC804	8-759-514-98 IC RC3414M
IC805	8-759-100-93 IC UPC3936G
IC806	8-759-207-00 IC TA7733F

IC807	8-759-107-68 IC CX20115A
IC808	8-759-700-62 IC NJM4562M
IC809	8-759-100-94 IC UPC3586G
IC901	8-759-207-50 IC TA7745F
IC902	8-759-150-05 IC UPC3242G

IC903	8-759-925-66 IC BA6303F
IC904	8-759-008-67 IC TC4068BF

(TRANSISTOR)

0806	8-729-111-14 TRANSISTOR 2SA1385-Z
0907	8-729-901-06 TRANSISTOR DTA144EK
0909	8-729-111-95 TRANSISTOR 2SC3518
0810	8-729-805-25 TRANSISTOR 2SB1121
0811	8-729-805-25 TRANSISTOR 2SB1121

0812	8-729-111-14 TRANSISTOR 2SA1385-Z
0813	8-729-100-66 TRANSISTOR 2SC1623
0820	8-729-111-95 TRANSISTOR 2SC3518
0821	8-729-100-66 TRANSISTOR 2SC1623
0820	8-729-100-66 TRANSISTOR 2SC1623

0901	8-729-920-82 TRANSISTOR 2SB1188-OR
0902	8-729-920-82 TRANSISTOR 2SB1188-OR
0903	8-729-920-82 TRANSISTOR 2SB1188-OR
0904	8-729-901-06 TRANSISTOR DTA144EK
0905	8-729-901-06 TRANSISTOR DTA144EK

0906	8-729-901-01 TRANSISTOR DTC144EK
0907	8-729-901-01 TRANSISTOR DTC144EK
0908	8-729-901-01 TRANSISTOR DTC144EK
0909	8-729-901-06 TRANSISTOR DTA144EK
0950	8-729-903-97 TRANSISTOR FM51FE

0990	8-729-100-66 TRANSISTOR 2SC1623
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MD-23 (CAPSTAN/DRUM/REEL MOTOR DRIVE), TS-74 (R) (TAPE TOP SENSOR), TS-74 (L) (TAPE END SENSOR) PRINTED WIRING BOARD

— Ref. No. MD-23, TS-74(R) BOARD: 1000 series, TS-74(L) BOARD: 2000 series —

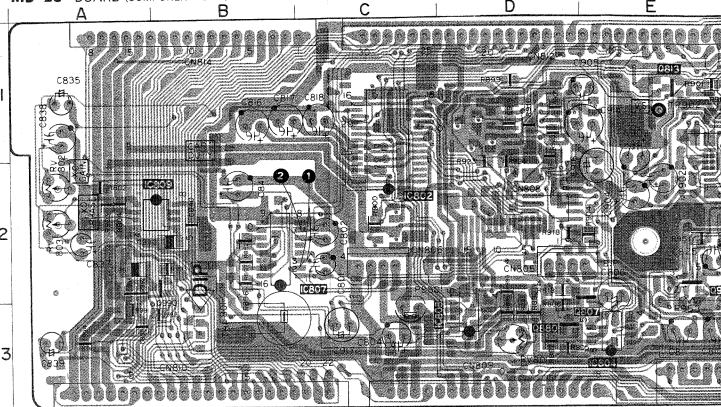
MD-23 BOARD
(COMPONENT
SIDE)

D810	F-3
D811	F-3
IC801	F-2
IC802	C-2
IC804	E-3
IC805	G-3
IC807	B-2
IC808	D-3
IC809	A-2
IC807	E-3
IC810	G-2
IC811	E-1
IC813	E-1
IC810	D-3
IC804	F-1
IC805	G-1
IC850	E-2
IC850	B-2

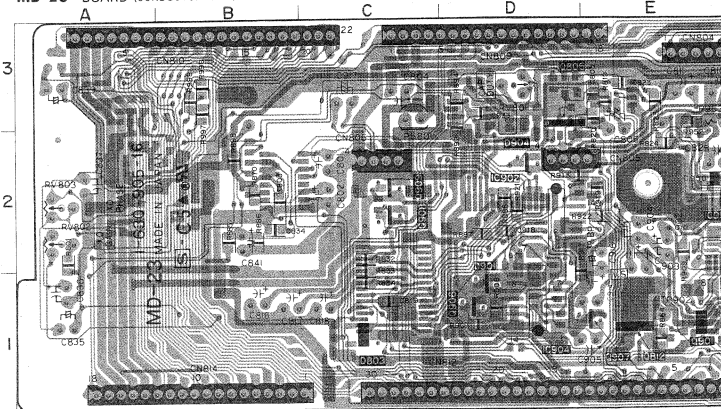
MD-23 BOARD
(CONDUCTOR
SIDE)

D803	C-1
D901	D-1
D902	F-1
D903	F-1
D904	D-2
D905	G-1
IC806	G-2
IC801	F-2
IC802	D-2
IC803	F-1
IC804	D-1
IC806	D-3
IC809	F-3
IC812	E-1
IC820	G-2
IC821	F-2
IC901	E-1
IC902	F-1
IC903	F-1
IC906	D-1
IC907	E-1
IC908	C-2
IC909	C-2

MD-23 BOARD (COMPONENT SIDE)



MD-23 BOARD (CONDUCTOR SIDE)



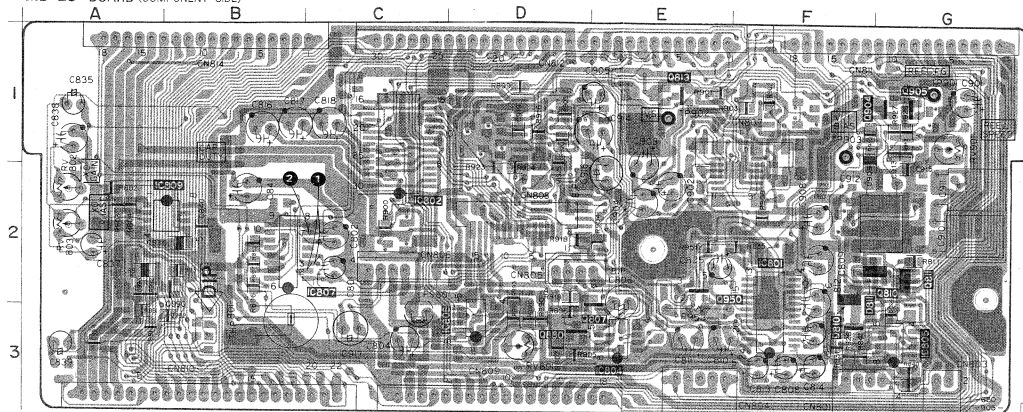
MD-23 (CAPSTAN/DRUM/REEL MOTOR DRIVE), TS-74 (R) (TAPE TOP SENSOR), TS-74 (L) (TAPE END SENSOR) PRINTED WIRING BOARDS

— Ref. No. MD-23, TS-74(R) BOARD: 1000 series, TS-74(L) BOARD: 2000 series —

**MD-23 BOARD
(COMPONENT
SIDE)**

D810 F-3
D811 F-3
IC801 F-2
IC802 C-2
IC804 E-3
IC805 G-3
IC807 E-2
IC808 D-3
IC809 A-2
Q807 F-3
Q810 G-2
Q812 E-1
Q813 E-1
Q860 D-3
Q804 F-1
Q805 G-1
Q890 E-2
Q890 B-2

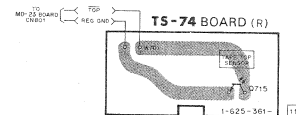
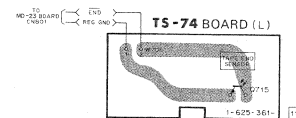
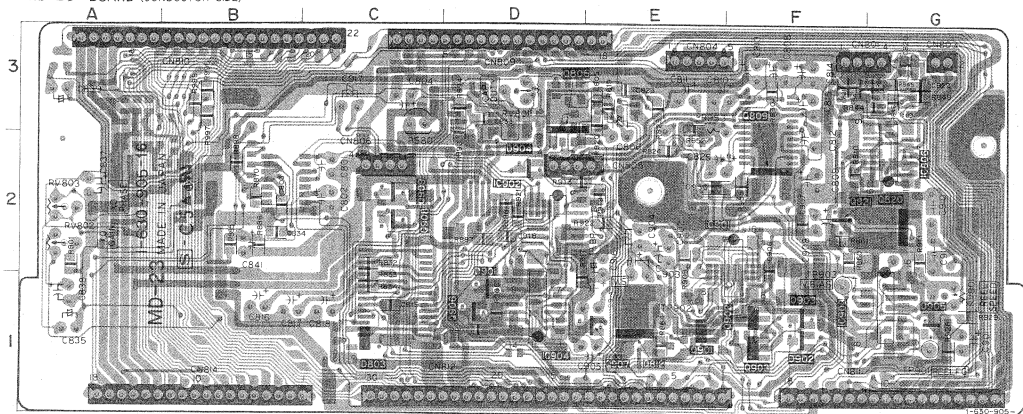
MD-23 BOARD (COMPONENT SIDE)



**MD-23 BOARD
(CONDUCTOR
SIDE)**

D803 C-1
D801 D-1
D802 F-1
D803 F-1
D804 D-2
D805 G-1
IC806 G-2
IC801 F-2
IC802 D-2
IC803 F-1
IC804 D-1
Q806 D-3
Q809 F-3
Q812 E-1
Q820 G-2
Q801 E-1
Q802 F-1
Q803 F-1
Q809 E-1
Q807 E-1
Q808 C-2
Q809 C-2

MD-23 BOARD (CONDUCTOR SIDE)



* A-7070-628-A TS-74 (L) BOARD, COMPLETE

(TRANSISTOR)

Q715 8-729-700-08 TRANSISTOR NJL714E





* A-7070-627-A TS-74 (R) BOARD, COMPLETE

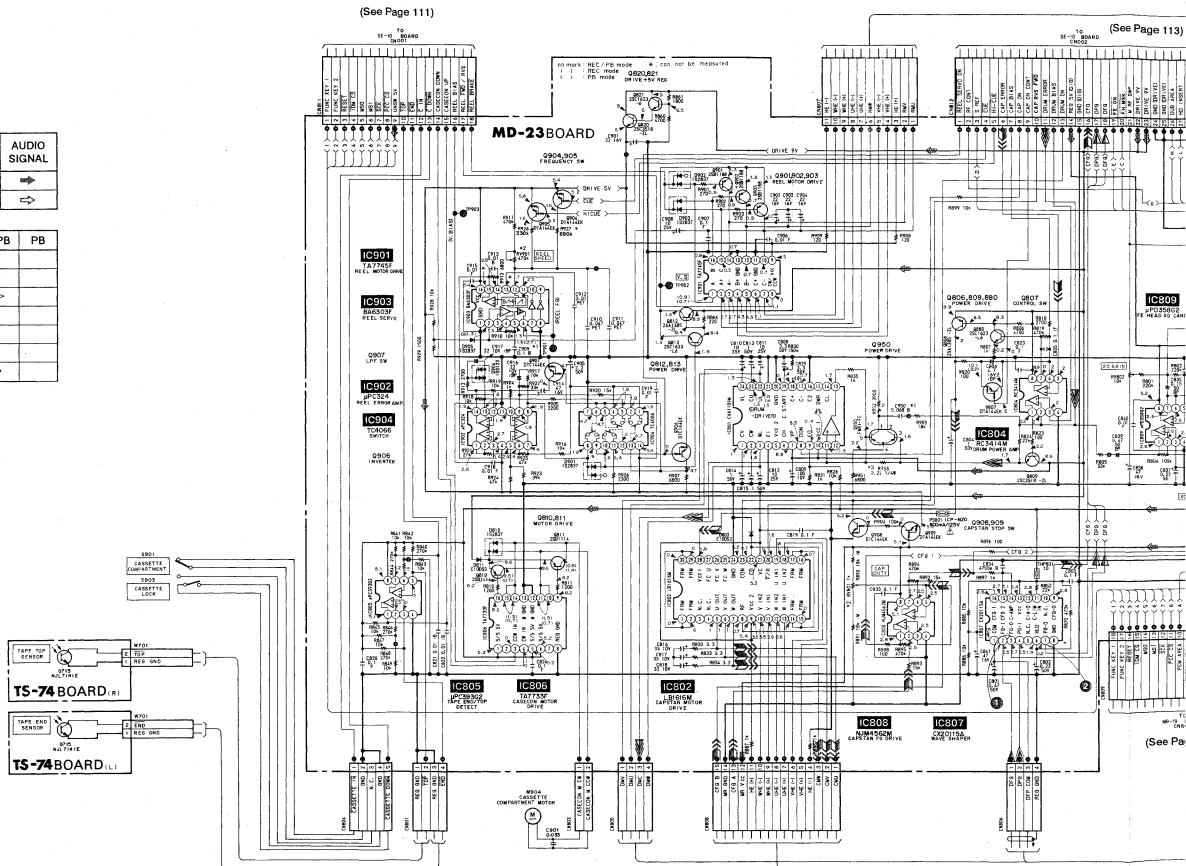
(TRANSISTOR)

Q715 8-729-700-08 TRANSISTOR NJL714E

(See Page 111)

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC				➡
PB				➡

	REC	REC/PB	PB
Drum speed servo			
Drum phase servo			
Drum servo (speed and phase)			
Capstan speed servo			
Capstan phase servo			
Capstan servo (speed and phase)			
Ref. signal			





RS-31 (REEL SENSOR), LD-1 (TAPE SENSOR), MS-4 (CONTROL MOTOR, MODE SWITCH), LS-9 (LOADING SWITCH) PRINTED WIRING BOARDS

— Ref. No. RS-31, LD-1 BOARD: 6000 series —

MS-4, LS-9 boards is replaced as a block, so that the PRINTED WIRING BOARD of it is omitted.

* A-7061-818-A RS-31 BOARD, COMPLETE

(DIODE)

D320 8-719-800-76 DIODE 1SS226
D321 8-719-800-76 DIODE 1SS226

(IC)

IC301 8-759-908-81 IC MB3763PF
IC302 8-759-908-81 IC MB3763PF

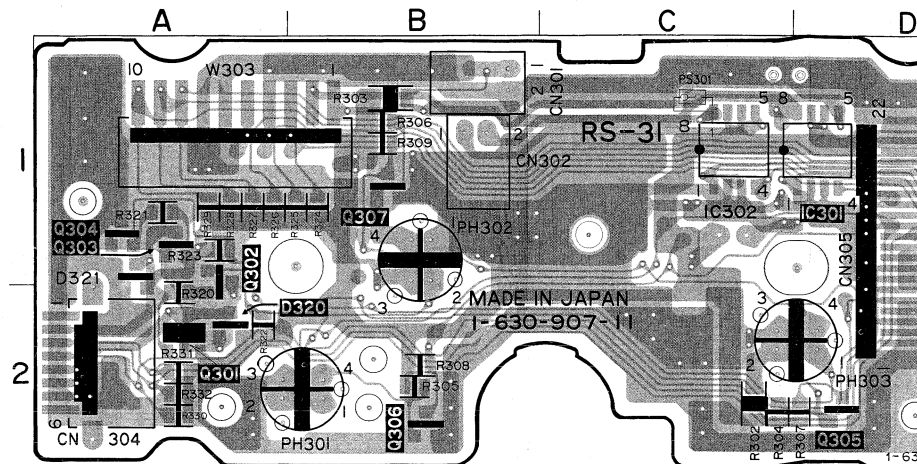
(TRANSISTOR)

Q301 8-729-805-25 TRANSISTOR 2SB1121
Q302 8-729-216-22 TRANSISTOR 2SA1162
Q303 8-729-216-22 TRANSISTOR 2SA1162
Q304 8-729-216-22 TRANSISTOR 2SA1162
Q305 8-729-901-01 TRANSISTOR DTC144EX
Q306 8-729-901-01 TRANSISTOR DTC144EX
Q307 8-729-901-01 TRANSISTOR DTC144EX

RS-31 BOARD
(COMPONENT
SIDE)

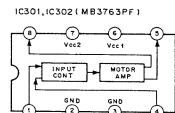
D320 B-2
D321 A-1
IC301 D-1
IC302 C-1
Q301 A-2
Q302 A-1
Q303 A-1
Q304 A-1
Q305 D-2
Q306 B-2
Q307 B-1

RS-31 BOARD (COMPONENT SIDE)



A
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B
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C
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D
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E
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F
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G
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H
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I
—
J





MB-19 (VTR FUNCTION SWITCH, AUDIO PROCESS) PRINTED WIRING BOARD

— Ref. No. MB-19 BOARD: 7000 series —

* A-7062-565-A MB-19 BOARD, COMPLETE

(DIODE)

D601	8-719-104-34 DIODE 1S2836
D602	8-719-104-34 DIODE 1S2836
D603	8-719-104-34 DIODE 1S2836
D604	8-719-400-18 DIODE MA152WK
D641	8-719-800-76 DIODE 1SS226

D642	8-719-800-76 DIODE 1SS226
------	---------------------------

(IC)

IC601	8-759-149-34 IC μ P075106G-591-1B
IC603	8-759-300-71 IC TC4053BFB
IC651	8-759-603-27 IC M5201FP
IC661	8-759-603-27 IC M5201FP
IC671	8-741-150-50 IC SBX1505

(TRANSISTOR)

O601	8-729-901-06 TRANSISTOR DTA144EK
O602	8-729-901-01 TRANSISTOR DTC144EK
O603	8-729-901-01 TRANSISTOR DTC144EK
O604	8-729-901-01 TRANSISTOR DTC144EK
O605	8-729-901-06 TRANSISTOR DTA144EK
O606	8-729-901-06 TRANSISTOR DTA144EK
O607	8-729-901-01 TRANSISTOR DTC144EK
O608	8-729-901-01 TRANSISTOR DTC144EK
O609	8-729-901-06 TRANSISTOR DTA144EK
O671	8-729-100-66 TRANSISTOR 2SC1623

MB-19 BOARD
(COMPONENT
SIDE)

IC602	C-3
IC671	F-4

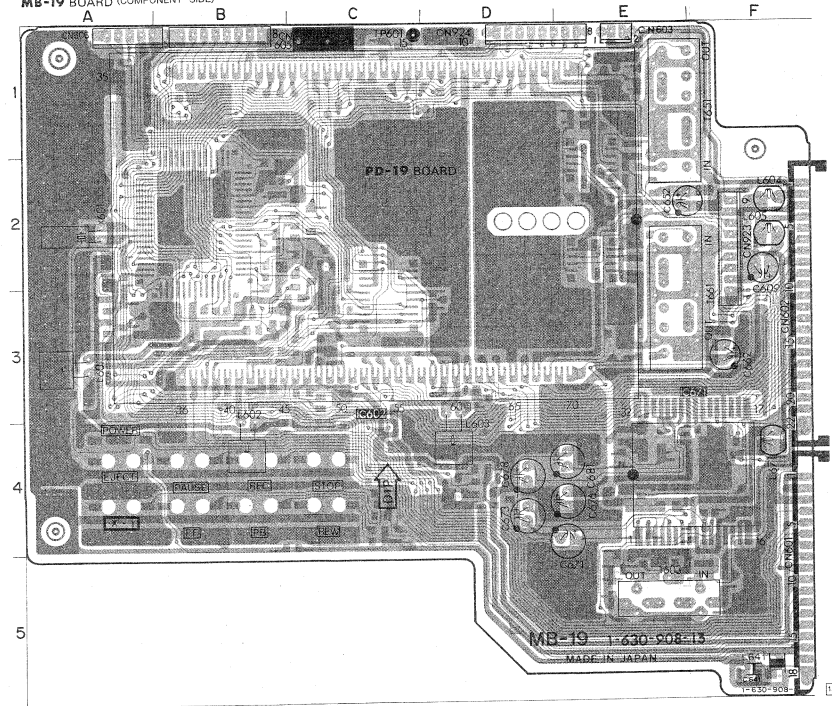
MB-19 BOARD
(CONDUCTOR
SIDE)

D601	C-4
D602	C-2
D603	C-2
D604	C-1
D641	F-5
D642	F-5

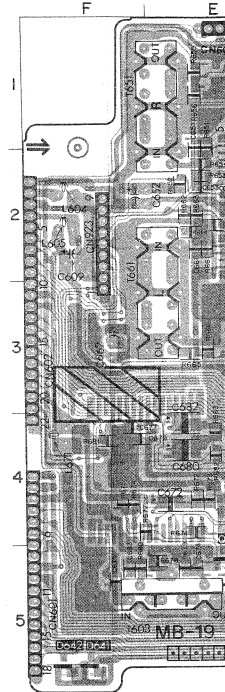
IC601	B-2
IC603	C-2
IC651	E-2
IC661	E-2

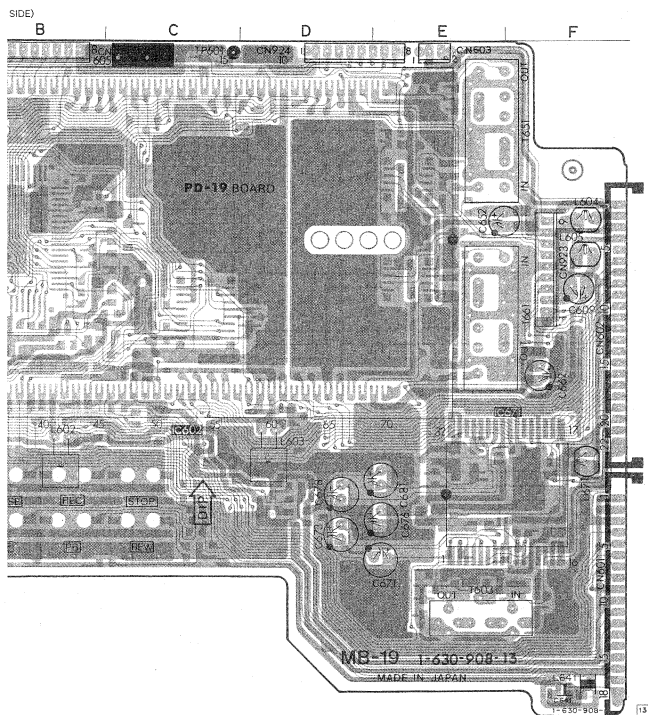
O601	B-3
O602	A-3
O603	A-3
O604	C-2
O605	C-2
O606	C-3
O607	B-3
O608	D-4
O609	D-4
O671	E-5

MB-19 BOARD (COMPONENT SIDE)

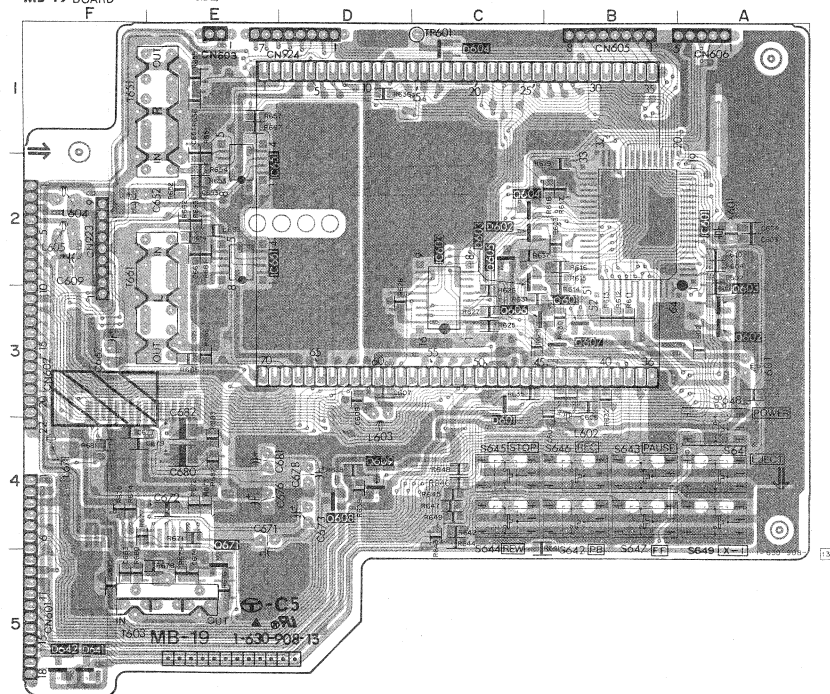


MB-19 BOARD (CONDUCTOR SIDE)





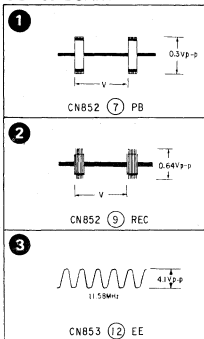
MB-19 BOARD (CONDUCTOR SIDE)



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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REC
PB

PD-19 BOARD

* A-7061-825-A PD-19 BOARD, COMPLETE

(DIODE)

D851 8-719-104-34 DIODE 1S2836
D852 8-719-400-18 DIODE MA152MK
D853 8-719-400-18 DIODE MA152MK

(IC)

IC851 8-752-324-45 IC CXD10660-Z
IC852 8-759-929-17 IC CXD1051W
IC853 8-752-010-30 IC CX20103
IC854 8-752-010-20 IC CX20102
IC855 8-752-331-00 IC CXK5864BM-12L

IC856 8-759-948-61 IC CX23011-C
IC857 8-759-911-19 IC CX23012
IC858 8-759-972-12 IC CF77305FT
IC859 8-752-809-68 IC CXP5024H-0790
IC860 8-759-972-13 IC CF77309FR

(TRANSISTOR)

O851 8-729-102-07 TRANSISTOR 2SC2223
O852 8-729-122-63 TRANSISTOR 2SA1226
O853 8-729-102-06 TRANSISTOR 2SC2223
O853 8-729-102-07 TRANSISTOR 2SC2223

* A-7061-826-A PA-27 BOARD, COMPLETE

(DIODE)

D031 8-719-104-34 DIODE 1S2836
D032 8-719-104-34 DIODE 1S2836
D033 8-719-104-34 DIODE 1S2836

(IC)

IC001 8-752-009-90 IC CX20099
IC002 8-759-981-92 IC NJM4558M
IC003 8-759-981-92 IC NJM4558M
IC004 8-752-322-57 IC CDD1077M
IC005 8-759-908-15 IC TL431CLP

(TRANSISTOR)

O001 8-729-202-38 TRANSISTOR 2SC3326N
O002 8-729-202-38 TRANSISTOR 2SC3326N
O031 8-729-901-06 TRANSISTOR DTA144EX
O032 8-729-901-06 TRANSISTOR DTA144EX
O033 8-729-901-06 TRANSISTOR DTA144EX

O034 8-729-216-22 TRANSISTOR 2SA1162
O035 8-729-216-22 TRANSISTOR 2SA1162
O051 8-729-202-38 TRANSISTOR 2SC3326N
O052 8-729-202-38 TRANSISTOR 2SC3326N

PD-19 (PCM AUDIO PROCESS), PA-27 (PCM AUDIO PROCESS) PRINTED WIRING BOARDS

— Ref. No. PD-19, PA-27 BOARD: 7000 series —

PD-19 BOARD
(COMPONENT SIDE)

D851 A-2
D852 B-1
D853 C-3

IC851 C-3
IC852 B-2
IC856 C-1
IC857 B-1
IC858 D-2

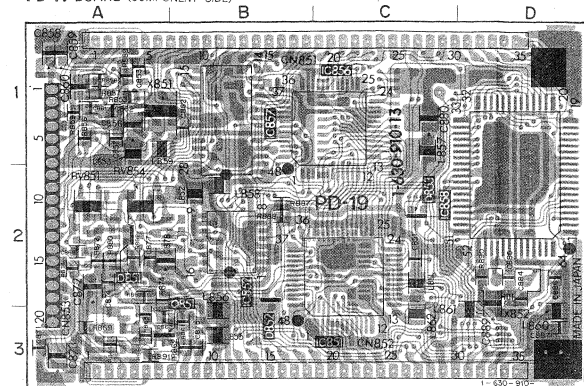
O851 B-3

PD-19 BOARD
(CONDUCTOR SIDE)

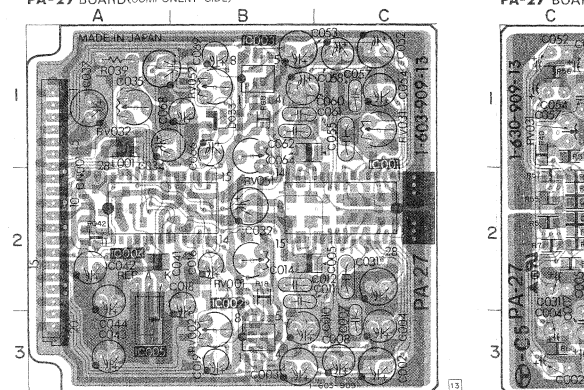
IC853 A-1
IC854 A-2
IC855 C-1
IC858 D-1
IC860 C-2

O852 A-3
O853 A-3

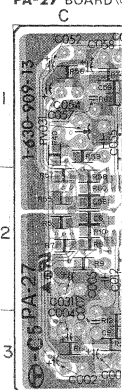
PD-19 BOARD (COMPONENT SIDE)



PA-27 BOARD (COMPONENT SIDE)



PA-27 BOARD (CONDUCTOR SIDE)



PD-19 (PCM AUDIO PROCESS), PA-27 (PCM AUDIO PROCESS) PRINTED WIRING BOARDS

— Ref. No. PD-19, PA-27 BOARD: 7000 series —

PD-19 BOARD (COMPONENT SIDE)

D851 A-2
D852 B-3
D853 C-2

IC851 C-3
IC852 B-2
IC855 C-1
IC857 B-1
IC858 D-2

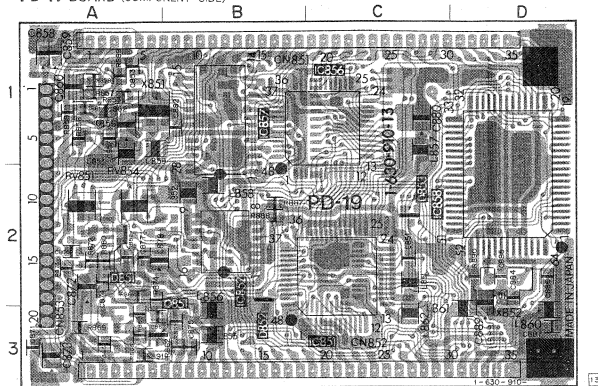
Q851 B-3

PD-19 BOARD (CONDUCTOR SIDE)

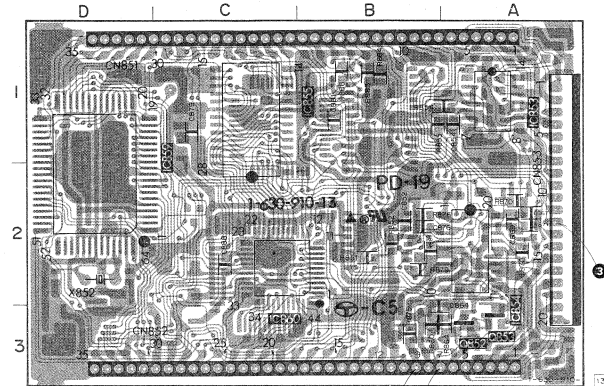
IC853 A-1
IC854 A-2
IC855 C-1
IC858 D-1
IC860 C-2

Q852 A-3
Q853 A-3

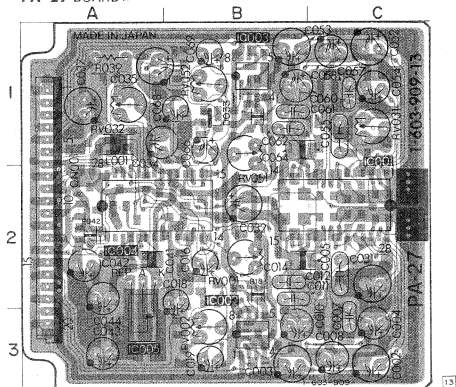
PD-19 BOARD (COMPONENT SIDE)



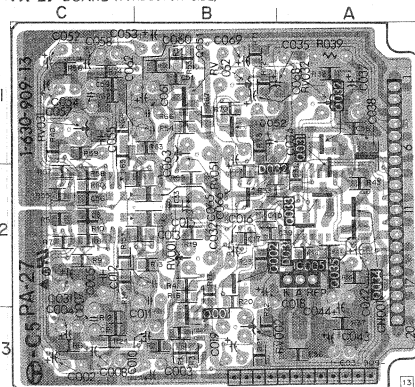
PD-19 BOARD (CONDUCTOR SIDE)

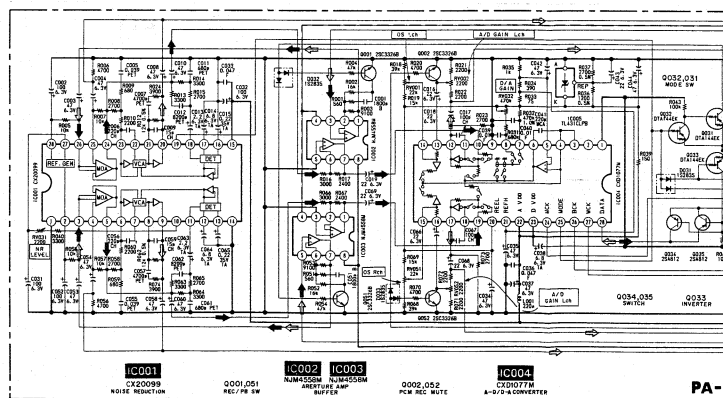
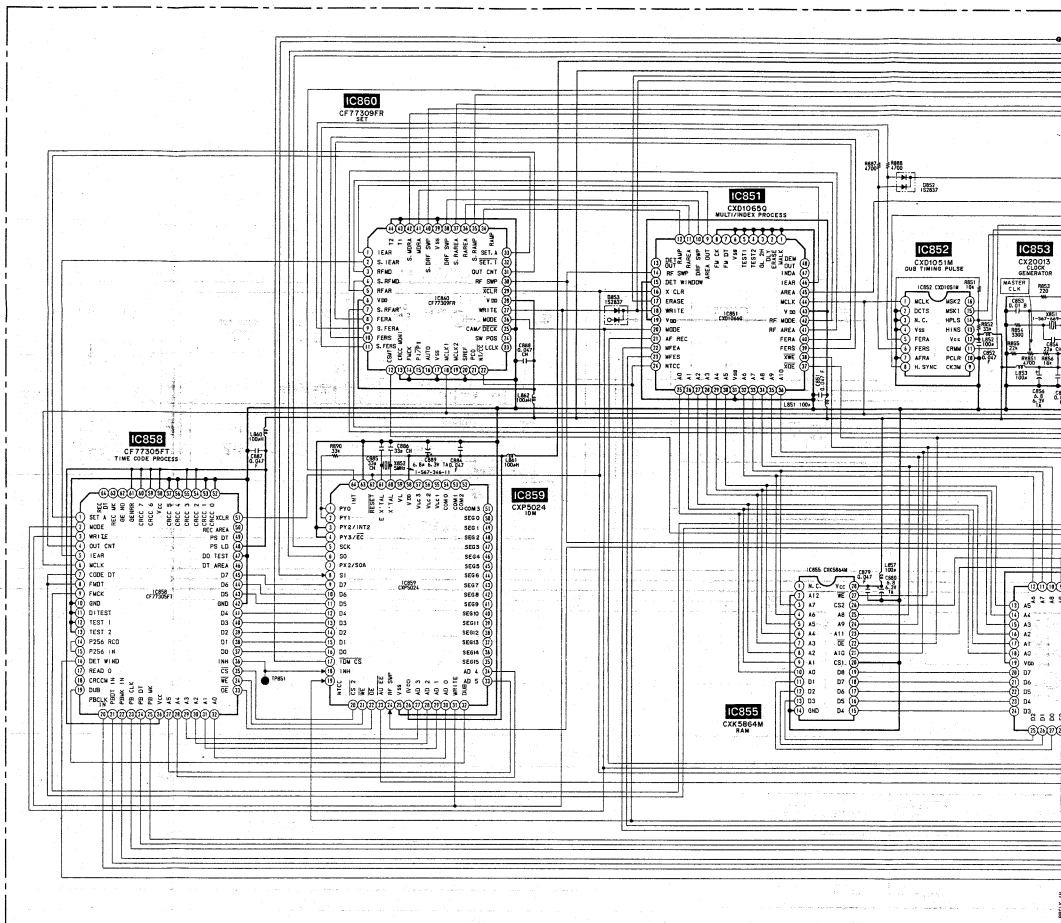


PA-27 BOARD (COMPONENT SIDE)

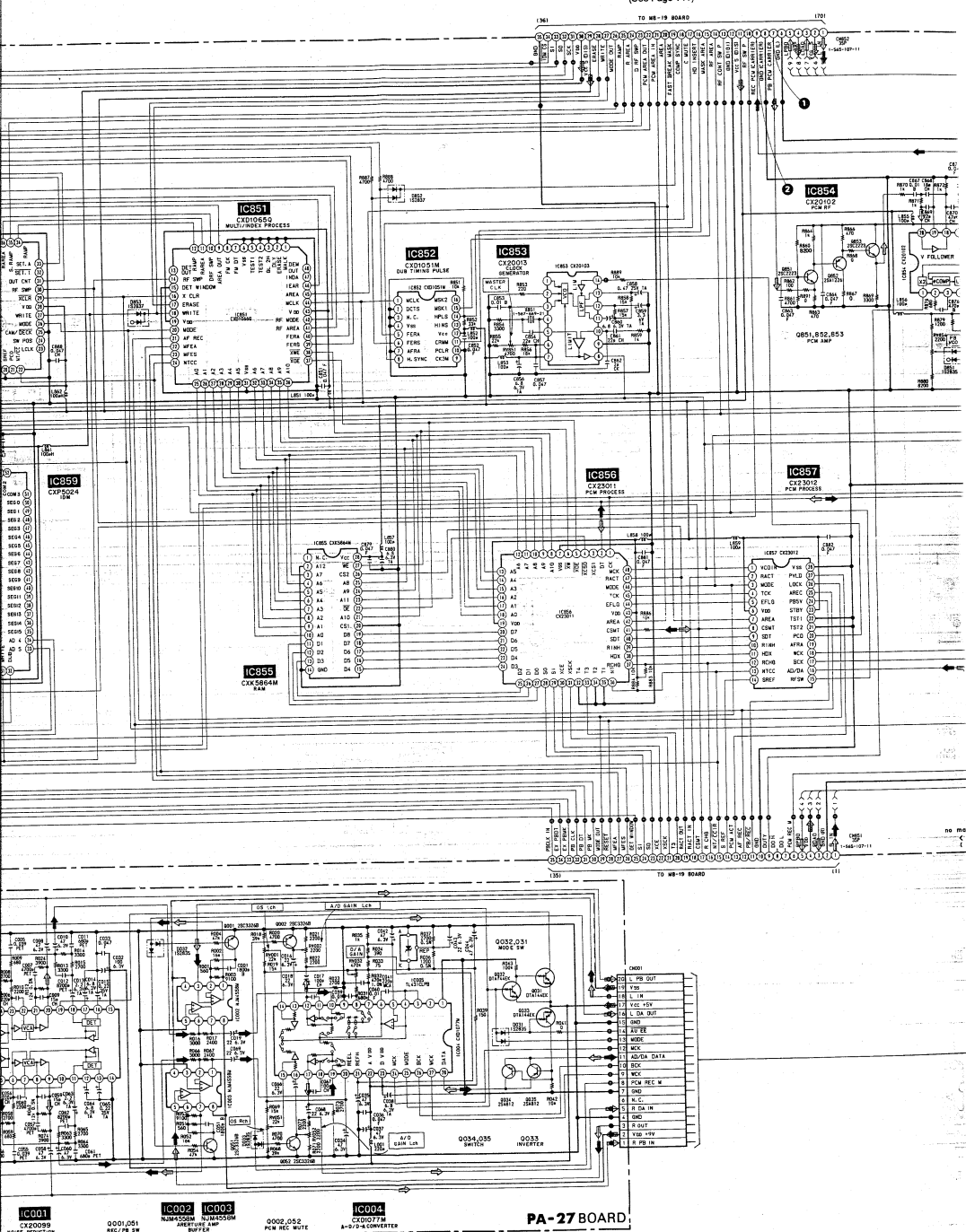


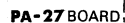
PA-27 BOARD (CONDUCTOR SIDE)



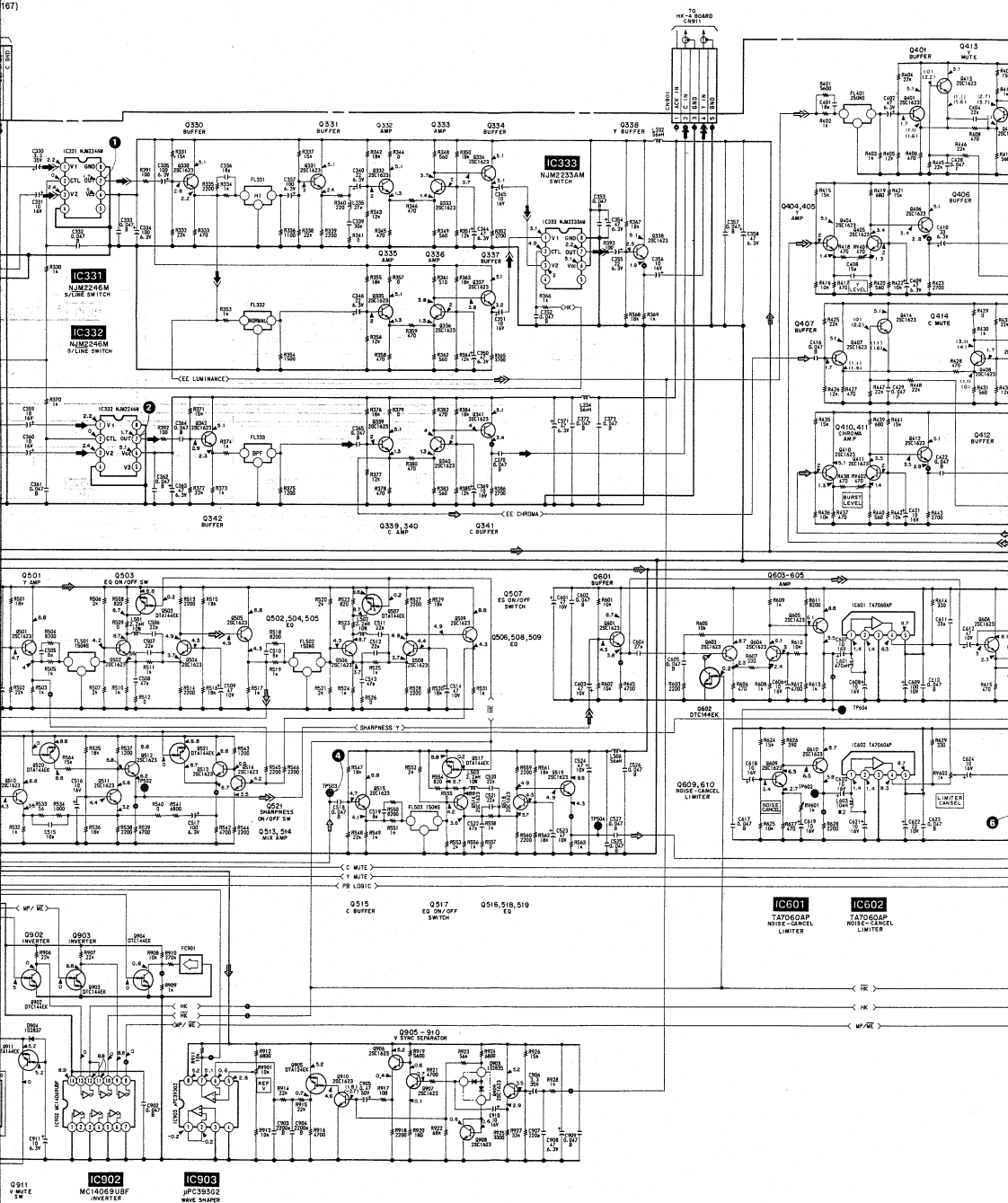


(See Page 141)



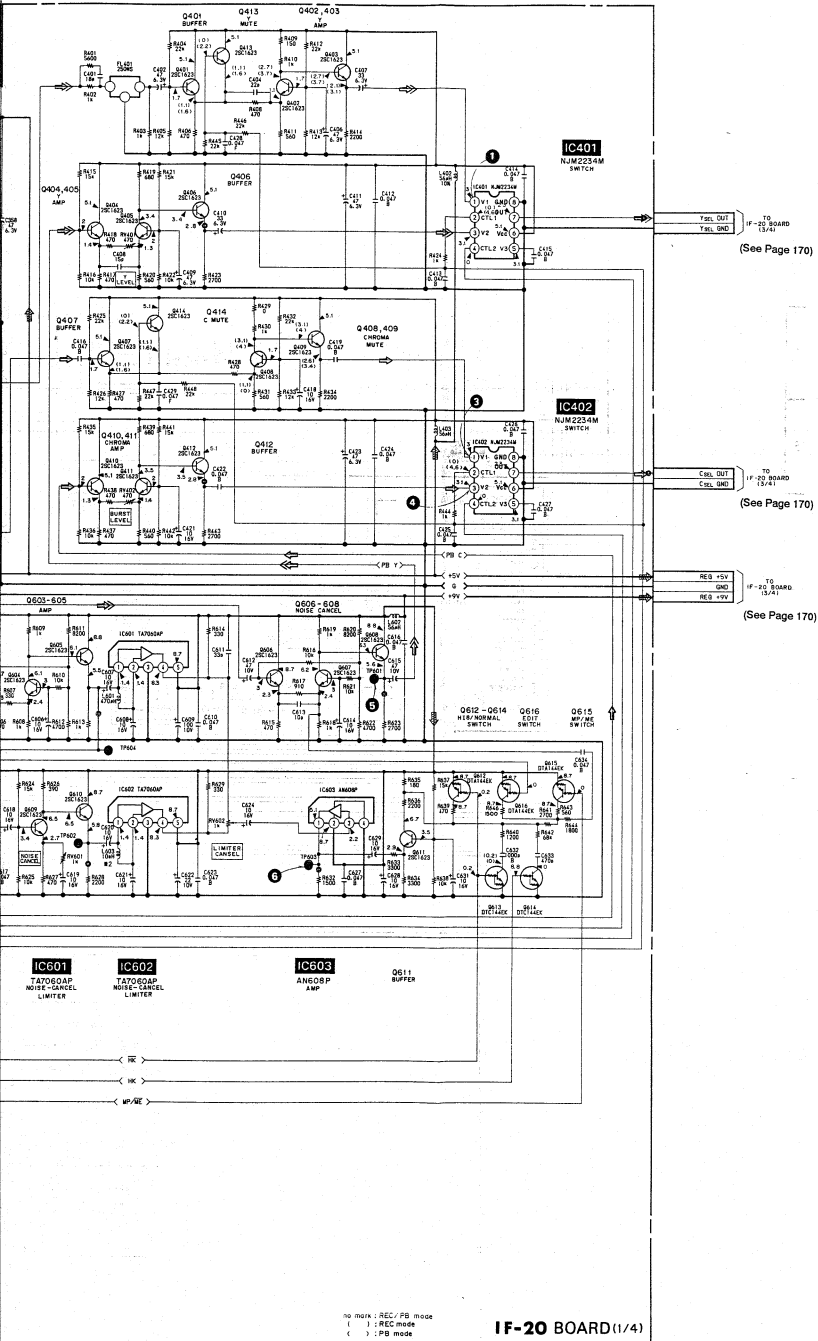


	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC				➡
PB				↔



(See Page 91)





IF-20 (VIDEO SIGNAL SELECT, SHARPNESS, NOISE CANCEL, YX FILTER, Y/C MIX, AUDIO SIGNAL SELECT), JB-4 (VIDEO, AUDIO JACK), JB-5 (VIDEO, AUDIO, RFU DC OUT JACK), TR-40 (S VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING

— Ref. No. IF-20 BOARD: 8000 series, JB-4, JB-5, TR-40 BOARD: 3000 series —

* A-7062-009-A IF-20 BOARD, COMPLETE

(DIODE)

D001	8-719-104-34 DIODE 1S2836
D002	8-719-104-34 DIODE 1S2836
D003	8-719-104-34 DIODE 1S2836
D004	8-719-104-34 DIODE 1S2836
D010	8-719-800-76 DIODE 1SS226
D051	8-719-104-34 DIODE 1S2836
D052	8-719-104-34 DIODE 1S2836
D053	8-719-104-34 DIODE 1S2836
D054	8-719-104-34 DIODE 1S2836
D060	8-719-800-76 DIODE 1SS226

IF-20 BOARD
(COMPONENT SIDE)

IF-20 BOARD
(CONDUCTOR SIDE)

D001 F-2
D004 F-1
D080 H-2
D185 H-2
D186 H-1
D188 H-2
D189 H-1
D192 G-1
D191 G-2
D004 G-3
IC001 G-3
IC003 G-3
IC006 G-1
IC005 F-1
IC009 H-1
IC051 H-3
IC008 H-2
IC056 F-2
IC005 G-2
IC185 G-1
IC201 A-2
IC202 B-2
IC331 A-4
IC332 B-4
IC333 A-5
IC401 F-1
IC402 H-4
IC705 G-5
IC801 D-2
IC802 D-2
IC903 C-5

Q001 E-1
Q006 G-2
Q008 G-1
Q010 H-3
Q011 H-2
Q012 H-3
Q050 H-2
Q051 H-2
Q179 H-1
Q182 H-2
Q183 H-2
Q186 G-1
Q188 G-1
Q189 G-1
Q213 B-2
Q214 B-2
Q223 B-3
Q224 B-3
Q225 B-3
Q226 B-3
Q227 C-3
Q228 C-3
Q334 A-5
Q407 G-4
Q408 G-4
Q409 G-4
Q412 H-4
Q414 H-4
Q503 C-4
Q504 C-4
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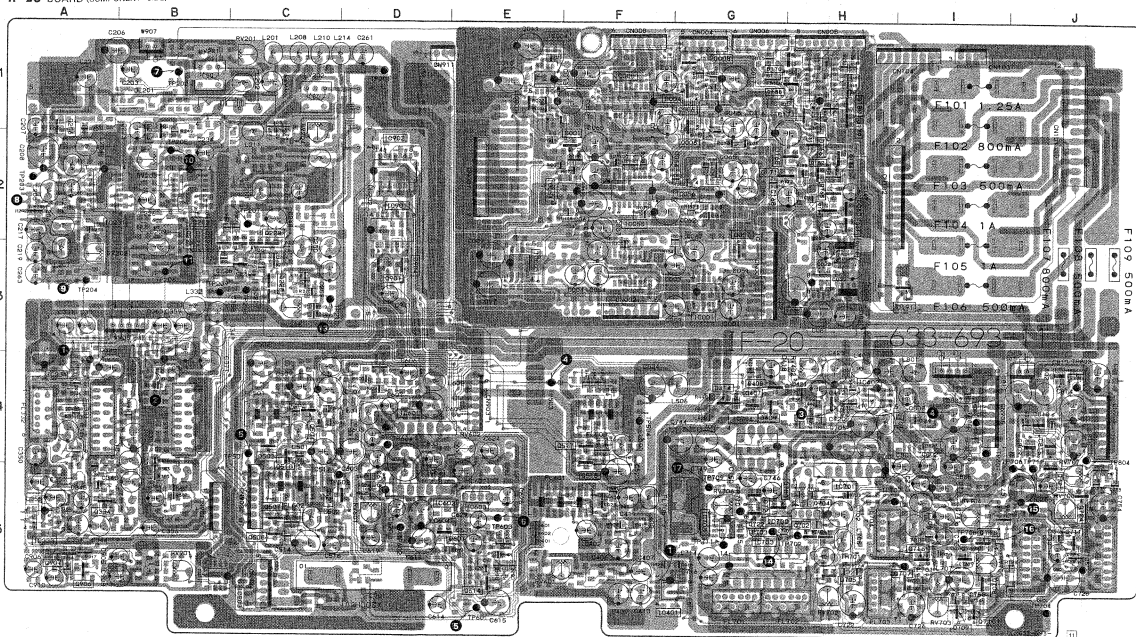
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IC006	8-759-981-92 IC RC4558M
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IC054	8-759-981-92 IC RC4558M
IC055	8-759-932-64 IC BU4052BF
IC056	8-759-981-92 IC RC4558M
IC185	8-759-200-67 IC TC4001BF
IC201	8-759-030-55 IC MC1496MR
IC202	8-759-030-55 IC MC1496MR
IC331	8-759-710-62 IC NJM2245M
IC332	8-759-710-62 IC NJM2245M
IC333	8-759-710-09 IC NJM2233AM

(TRANSISTOR)

IC401	8-759-711-71 IC NJM2234M
IC402	8-759-711-71 IC NJM2234M
IC601	8-759-200-60 IC TA7060AP
IC602	8-759-200-60 IC TA7060AP
IC603	8-759-400-06 IC AN60P
IC701	8-759-200-60 IC TA7060AP
IC702	8-759-402-33 IC AN607P
IC703	8-752-201-30 IC CX2013
IC704	8-759-969-13 IC SN16913P
IC705	8-759-101-12 IC μ C31102
IC801	8-752-009-51 IC CX20095A
IC802	8-752-009-51 IC CX20095A
IC901	8-759-009-10 IC MC14069JBF
IC902	8-759-009-10 IC MC14069JBF
IC903	8-759-100-93 IC μ C39362

Q055	8-729-202-38 TRANSISTOR 25C3326N
Q057	8-729-202-38 TRANSISTOR 25C3326N
Q061	8-729-101-07 TRANSISTOR 25C3326N
Q069	8-729-901-01 TRANSISTOR 25C3326N
Q165	8-729-901-06 TRANSISTOR 25C3326N
Q166	8-729-901-01 TRANSISTOR 25C3326N
Q167	8-729-100-66 TRANSISTOR 25C3326N
Q168	8-729-901-06 TRANSISTOR 25C3326N
Q169	8-729-901-06 TRANSISTOR 25C3326N
Q170	8-729-901-06 TRANSISTOR 25C3326N
Q171	8-729-901-06 TRANSISTOR 25C3326N
Q172	8-729-100-66 TRANSISTOR 25C3326N
Q174	8-729-901-06 TRANSISTOR 25C3326N
Q175	8-729-202-38 TRANSISTOR 25C3326N
Q176	8-729-901-06 TRANSISTOR 25C3326N

IF-20 BOARD (COMPONENT SIDE)

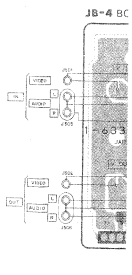
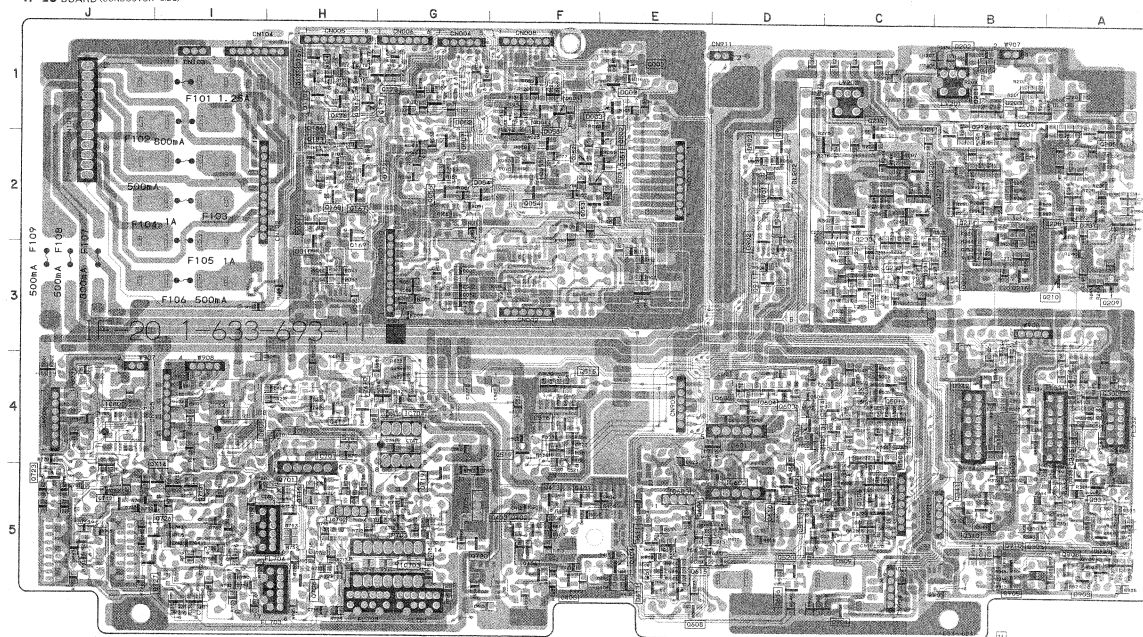
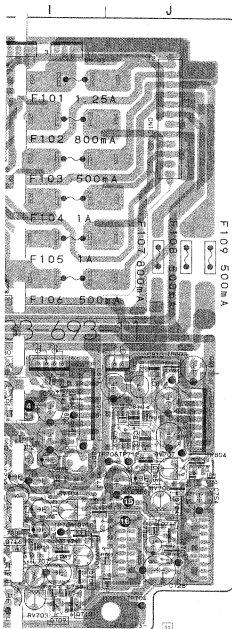


IF-20 JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARDS

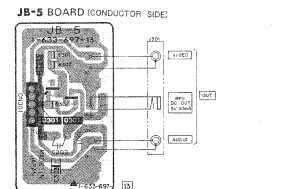
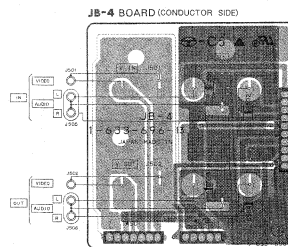
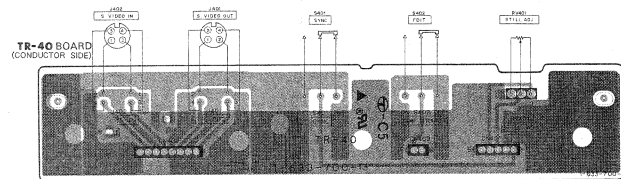
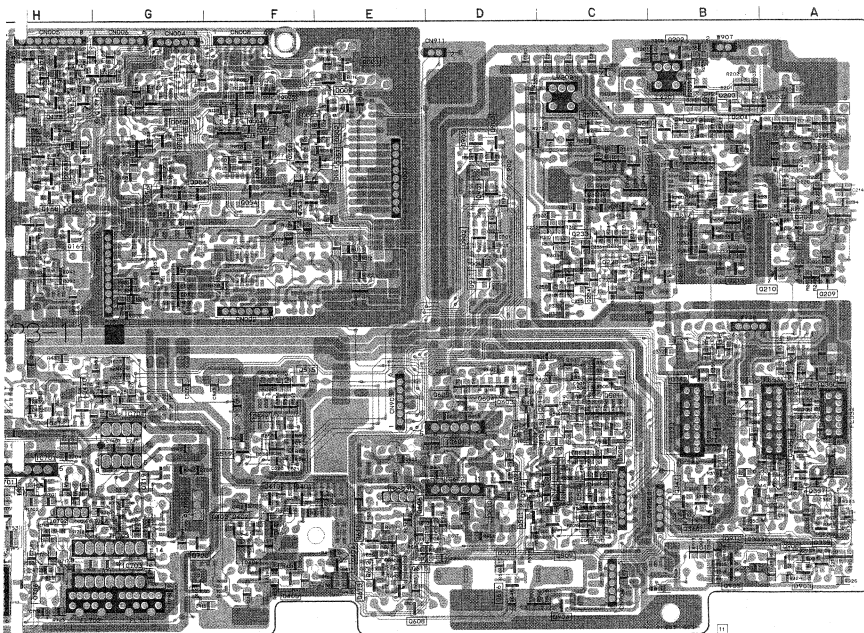
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02	3	TRANSISTOR 25C3326N	0057	8-729-202-38 TRANSISTOR 25C3326N	0178	8-729-901-01 TRANSISTOR DT1C144EX	0211	8-729-320-17 TRANSISTOR 25A1122CD	0234	8-729-100-66 TRANSISTOR 25C1623	0407	8-729-100-66 TRANSISTOR 25C1623	0513	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0060	8-729-101-07 TRANSISTOR 25B798	0179	8-729-901-06 TRANSISTOR DT1A44EX	0212	8-729-100-66 TRANSISTOR 25C1623	0330	8-729-100-66 TRANSISTOR 25C1623	0408	8-729-100-66 TRANSISTOR 25C1623	0514	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0061	8-729-901-01 TRANSISTOR DT1C144EX	0180	8-729-901-01 TRANSISTOR DT1A44EX	0213	8-729-100-66 TRANSISTOR 25C1623	0331	8-729-100-66 TRANSISTOR 25C1623	0409	8-729-100-66 TRANSISTOR 25C1623	0515	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0165	8-729-901-06 TRANSISTOR DT1A44EX	0181	8-729-901-01 TRANSISTOR DT1C144EX	0214	8-729-100-66 TRANSISTOR 25C1623	0332	8-729-100-66 TRANSISTOR 25C1623	0410	8-729-100-66 TRANSISTOR 25C1623	0516	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0166	8-729-901-01 TRANSISTOR DT1C144EX	0182	8-729-216-22 TRANSISTOR 25A1162	0215	8-729-100-66 TRANSISTOR 25C1623	0333	8-729-100-66 TRANSISTOR 25C1623	0411	8-729-100-66 TRANSISTOR 25C1623	0517	8-729-901-06 TRANSISTOR DT1A44EX
02	3	TRANSISTOR 25C3326N	0167	8-729-100-66 TRANSISTOR 25C1623	0183	8-729-901-01 TRANSISTOR DT1C144EX	0216	8-729-100-66 TRANSISTOR 25C1623	0334	8-729-100-66 TRANSISTOR 25C1623	0412	8-729-100-66 TRANSISTOR 25C1623	0518	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0168	8-729-901-06 TRANSISTOR DT1A44EX	0184	8-729-901-01 TRANSISTOR DT1C144EX	0217	8-729-100-66 TRANSISTOR 25C1623	0335	8-729-100-66 TRANSISTOR 25C1623	0413	8-729-100-66 TRANSISTOR 25C1623	0519	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0169	8-729-901-06 TRANSISTOR DT1A44EX	0186	8-729-901-06 TRANSISTOR DT1A44EX	0220	8-729-100-66 TRANSISTOR 25C1623	0336	8-729-100-66 TRANSISTOR 25C1623	0414	8-729-100-66 TRANSISTOR 25C1623	0520	8-729-901-06 TRANSISTOR DT1A44EX
02	3	TRANSISTOR 25C3326N	0170	8-729-901-06 TRANSISTOR DT1A44EX	0188	8-729-901-06 TRANSISTOR DT1A44EX	0221	8-729-100-66 TRANSISTOR 25C1623	0337	8-729-100-66 TRANSISTOR 25C1623	0501	8-729-100-66 TRANSISTOR 25C1623	0521	8-729-901-06 TRANSISTOR DT1A44EX
01	06	TRANSISTOR DT1A44EX	0171	8-729-901-06 TRANSISTOR DT1A44EX	0191	8-729-216-22 TRANSISTOR 25A1162	0222	8-729-100-66 TRANSISTOR 25C1623	0338	8-729-100-66 TRANSISTOR 25C1623	0502	8-729-100-66 TRANSISTOR 25C1623	0601	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0172	8-729-100-66 TRANSISTOR 25C1623	0201	8-729-100-66 TRANSISTOR 25C1623	0223	8-729-100-66 TRANSISTOR 25C1623	0339	8-729-100-66 TRANSISTOR 25C1623	0503	8-729-901-06 TRANSISTOR DT1A44EX	0602	8-729-901-01 TRANSISTOR DT1A44EX
02	3	TRANSISTOR 25C3326N	0174	8-729-901-06 TRANSISTOR DT1A44EX	0202	8-729-100-66 TRANSISTOR 25C1623	0224	8-729-100-66 TRANSISTOR 25C1623	0340	8-729-100-66 TRANSISTOR 25C1623	0504	8-729-100-66 TRANSISTOR 25C1623	0603	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0175	8-729-901-06 TRANSISTOR DT1A44EX	0203	8-729-100-66 TRANSISTOR 25C1623	0225	8-729-100-66 TRANSISTOR 25C1623	0341	8-729-100-66 TRANSISTOR 25C1623	0505	8-729-100-66 TRANSISTOR 25C1623	0604	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0176	8-729-901-06 TRANSISTOR DT1A44EX	0204	8-729-320-17 TRANSISTOR 25A1122CD	0226	8-729-320-17 TRANSISTOR 25A1122CD	0342	8-729-100-66 TRANSISTOR 25C1623	0506	8-729-100-66 TRANSISTOR 25C1623	0605	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0177	8-729-901-06 TRANSISTOR DT1A44EX	0205	8-729-100-66 TRANSISTOR 25C1623	0227	8-729-100-66 TRANSISTOR 25C1623	0401	8-729-100-66 TRANSISTOR 25C1623	0507	8-729-901-06 TRANSISTOR DT1A44EX	0606	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0178	8-729-100-66 TRANSISTOR 25C1623	0206	8-729-100-66 TRANSISTOR 25C1623	0228	8-729-100-66 TRANSISTOR 25C1623	0402	8-729-100-66 TRANSISTOR 25C1623	0508	8-729-100-66 TRANSISTOR 25C1623	0607	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0179	8-729-901-06 TRANSISTOR DT1A44EX	0207	8-729-100-66 TRANSISTOR 25C1623	0229	8-729-100-66 TRANSISTOR 25C1623	0403	8-729-100-66 TRANSISTOR 25C1623	0509	8-729-100-66 TRANSISTOR 25C1623	0608	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0176	8-729-901-06 TRANSISTOR DT1A44EX	0208	8-729-320-17 TRANSISTOR 25A1122CD	0230	8-729-100-66 TRANSISTOR 25C1623	0404	8-729-100-66 TRANSISTOR 25C1623	0510	8-729-100-66 TRANSISTOR 25C1623	0609	8-729-100-66 TRANSISTOR 25C1623
02	3	TRANSISTOR 25C3326N	0176	8-729-901-06 TRANSISTOR DT1A44EX	0209	8-729-320-17 TRANSISTOR 25A1122CD	0231	8-729-100-66 TRANSISTOR 25C1623	0405	8-729-100-66 TRANSISTOR 25C1623	0511	8-729-100-66 TRANSISTOR 25C1623	0610	8-729-100-66 TRANSISTOR 25C1623

IF-20 BOARD (CONDUCTOR SIDE)



A144EK	0210	8-729-320-17 TRANSISTOR 2SA1122CD	0233	8-729-100-66 TRANSISTOR 2SC1623	0406	8-729-100-66 TRANSISTOR 2SC1623	0512	8-729-100-66 TRANSISTOR 2SC1623	0611	8-729-100-66 TRANSISTOR 2SC1623	0720	8-729-100-66 TRANSISTOR 2SC1623
C1 EK	0211	8-729-320-17 TRANSISTOR 2SA1122CD	0234	8-729-100-66 TRANSISTOR 2SC1623	0407	8-729-100-66 TRANSISTOR 2SC1623	0513	8-729-100-66 TRANSISTOR 2SC1623	0612	8-729-901-06 TRANSISTOR DTA144EK	0721	8-729-320-17 TRANSISTOR 2SA1122CD
A1 EK	0212	8-729-100-66 TRANSISTOR 2SC1623	0330	8-729-100-66 TRANSISTOR 2SC1623	0408	8-729-100-66 TRANSISTOR 2SC1623	0514	8-729-100-66 TRANSISTOR 2SC1623	0613	8-729-901-01 TRANSISTOR DTC144EK	0722	8-729-100-66 TRANSISTOR 2SC1623
C144EK	0213	8-729-100-66 TRANSISTOR 2SC1623	0331	8-729-100-66 TRANSISTOR 2SC1623	0409	8-729-100-66 TRANSISTOR 2SC1623	0515	8-729-100-66 TRANSISTOR 2SC1623	0614	8-729-901-01 TRANSISTOR DTC144EK	0723	8-729-100-66 TRANSISTOR 2SC1623
C144EK	0214	8-729-100-66 TRANSISTOR 2SC1623	0332	8-729-100-66 TRANSISTOR 2SC1623	0410	8-729-100-66 TRANSISTOR 2SC1623	0516	8-729-100-66 TRANSISTOR 2SC1623	0615	8-729-901-06 TRANSISTOR DTA144EK	0724	8-729-100-66 TRANSISTOR 2SC1623
A1 2	0215	8-729-100-66 TRANSISTOR 2SC1623	0333	8-729-100-66 TRANSISTOR 2SC1623	0411	8-729-100-66 TRANSISTOR 2SC1623	0517	8-729-901-06 TRANSISTOR DTA144EK	0616	8-729-901-06 TRANSISTOR DTA144EK	0725	8-729-100-66 TRANSISTOR 2SC1623
C144EK	0216	8-729-100-66 TRANSISTOR 2SC1623	0334	8-729-100-66 TRANSISTOR 2SC1623	0412	8-729-100-66 TRANSISTOR 2SC1623	0518	8-729-100-66 TRANSISTOR 2SC1623	0701	8-729-100-66 TRANSISTOR 2SC1623	0726	8-729-100-66 TRANSISTOR 2SC1623
C144EK	0217	8-729-100-66 TRANSISTOR 2SC1623	0335	8-729-100-66 TRANSISTOR 2SC1623	0413	8-729-100-66 TRANSISTOR 2SC1623	0519	8-729-100-66 TRANSISTOR 2SC1623	0702	8-729-100-66 TRANSISTOR 2SC1623	0727	8-729-216-22 TRANSISTOR 2SA1162
A1 EK	0220	8-729-100-66 TRANSISTOR 2SC1623	0336	8-729-100-66 TRANSISTOR 2SC1623	0414	8-729-100-66 TRANSISTOR 2SC1623	0520	8-729-901-06 TRANSISTOR DTA144EK	0703	8-729-202-38 TRANSISTOR 2SC332BN	0901	8-729-901-01 TRANSISTOR DTC144EK
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A1162	0222	8-729-100-66 TRANSISTOR 2SC1623	0338	8-729-100-66 TRANSISTOR 2SC1623	0502	8-729-100-66 TRANSISTOR 2SC1623	0601	8-729-100-66 TRANSISTOR 2SC1623	0705	8-729-100-66 TRANSISTOR 2SC1623	0903	8-729-901-01 TRANSISTOR DTC144EK
C1 3	0223	8-729-100-66 TRANSISTOR 2SC1623	0339	8-729-100-66 TRANSISTOR 2SC1623	0503	8-729-901-06 TRANSISTOR DTA144EK	0602	8-729-901-01 TRANSISTOR DTC144EK	0706	8-729-100-66 TRANSISTOR 2SC1623	0904	8-729-901-01 TRANSISTOR DTC144EK
C1 3	0224	8-729-100-66 TRANSISTOR 2SC1623	0340	8-729-100-66 TRANSISTOR 2SC1623	0504	8-729-100-66 TRANSISTOR 2SC1623	0603	8-729-100-66 TRANSISTOR 2SC1623	0707	8-729-100-66 TRANSISTOR 2SC1623	0905	8-729-901-05 TRANSISTOR DTA144EK
C1623	0225	8-729-100-66 TRANSISTOR 2SC1623	0341	8-729-100-66 TRANSISTOR 2SC1623	0505	8-729-100-66 TRANSISTOR 2SC1623	0604	8-729-100-66 TRANSISTOR 2SC1623	0708	8-729-100-66 TRANSISTOR 2SC1623	0906	8-729-100-66 TRANSISTOR 2SC1623
JA1122CD	0226	8-729-320-17 TRANSISTOR 2SA1122CD	0342	8-729-100-66 TRANSISTOR 2SC1623	0506	8-729-100-66 TRANSISTOR 2SC1623	0605	8-729-100-66 TRANSISTOR 2SC1623	0709	8-729-100-66 TRANSISTOR 2SC1623	0907	8-729-100-66 TRANSISTOR 2SC1623
C1 3	0227	8-729-100-66 TRANSISTOR 2SC1623	0401	8-729-100-66 TRANSISTOR 2SC1623	0507	8-729-901-06 TRANSISTOR DTA144EK	0606	8-729-100-66 TRANSISTOR 2SC1623	0710	8-729-100-66 TRANSISTOR 2SC1623	0908	8-729-100-66 TRANSISTOR 2SC1623
C1623	0228	8-729-100-66 TRANSISTOR 2SC1623	0402	8-729-100-66 TRANSISTOR 2SC1623	0508	8-729-100-66 TRANSISTOR 2SC1623	0607	8-729-100-66 TRANSISTOR 2SC1623	0711	8-729-100-66 TRANSISTOR 2SC1623	0909	8-729-100-66 TRANSISTOR 2SC1623
C1623	0229	8-729-100-66 TRANSISTOR 2SC1623	0403	8-729-100-66 TRANSISTOR 2SC1623	0509	8-729-100-66 TRANSISTOR 2SC1623	0608	8-729-100-66 TRANSISTOR 2SC1623	0712	8-729-100-66 TRANSISTOR 2SC1623	0910	8-729-100-66 TRANSISTOR 2SC1623
SA 12CD	0230	8-729-100-66 TRANSISTOR 2SC1623	0404	8-729-100-66 TRANSISTOR 2SC1623	0510	8-729-100-66 TRANSISTOR 2SC1623	0609	8-729-100-66 TRANSISTOR 2SC1623	0713	8-729-100-66 TRANSISTOR 2SC1623	0911	8-729-100-66 TRANSISTOR 2SC1623
SA 12CD	0231	8-729-100-66 TRANSISTOR 2SC1623	0405	8-729-100-66 TRANSISTOR 2SC1623	0511	8-729-100-66 TRANSISTOR 2SC1623	0610	8-729-100-66 TRANSISTOR 2SC1623	0714	8-729-100-66 TRANSISTOR 2SC1623		



IF-20 (VIDEO SIGNAL SELECT, SHARPNESS, NOISE CANCEL, YX FILTER, Y/C MIX, AUDIO SIGNAL SELECT), JB-4 (VIDEO, AUDIO JACK), JB-5 (VIDEO, AUDIO, RFU DC OUT JACK), TR-40 (S VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARD

— Ref. No. IF-20 BOARD: 8000 series, JB-4, JB-5, TR-40 BOARD: 3000 series —

* A-7062-009-A IF-20 BOARD, COMPLETE

(DIODE)

D001	8-719-104-34 DIODE 1S2836
D002	8-719-104-34 DIODE 1S2836
D003	8-719-104-34 DIODE 1S2836
D004	8-719-104-34 DIODE 1S2836
D010	8-719-800-76 DIODE 1S3226
D051	8-719-104-34 DIODE 1S2836
D052	8-719-104-34 DIODE 1S2836
D053	8-719-104-34 DIODE 1S2836
D054	8-719-104-34 DIODE 1S2836
D060	8-719-800-76 DIODE 1S3226

D165	8-719-400-18 DIODE MA152WK
D166	8-719-400-18 DIODE MA152WK
D167	8-719-800-76 DIODE 1S3226
D168	8-719-800-76 DIODE 1S3226
D169	8-719-800-76 DIODE 1S3226
D170	8-719-800-76 DIODE 1S3226
D171	8-719-104-34 DIODE 1S2836
D201	8-719-800-76 DIODE 1S3226
D901	8-719-400-18 DIODE MA152WK
D902	8-719-400-18 DIODE MA152WK
D903	8-719-104-34 DIODE 1S2836
D904	8-719-400-18 DIODE MA152WK

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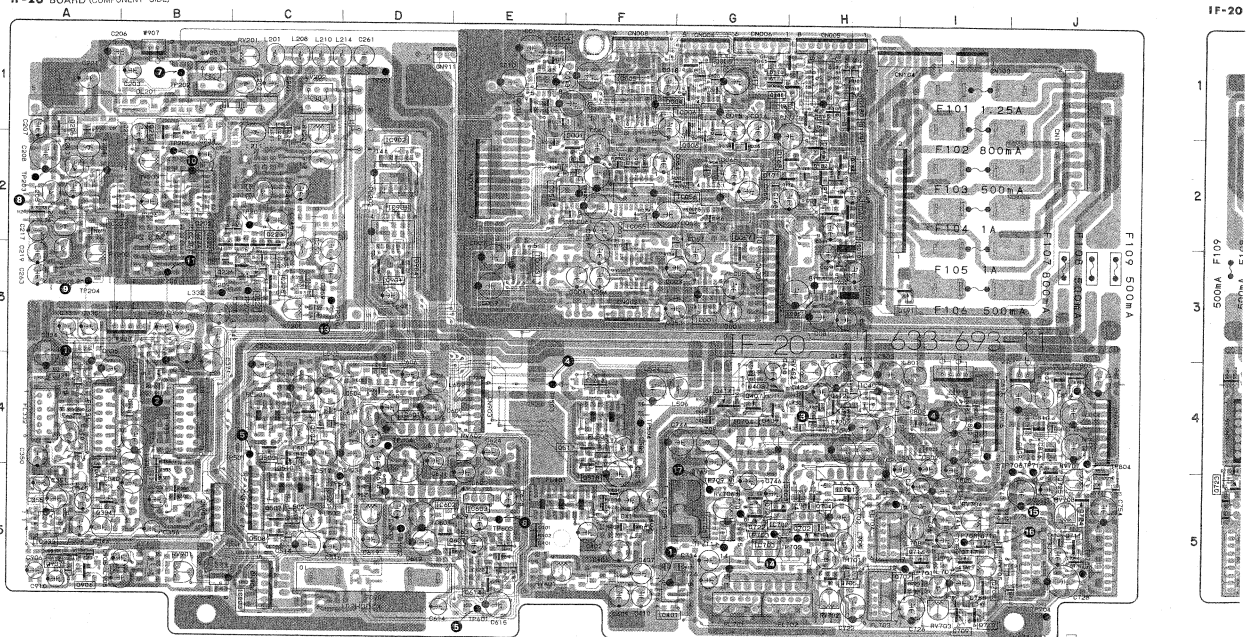
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IC003	8-759-981-92 IC RC4558M
IC004	8-759-981-92 IC RC4558M
IC005	8-759-932-64 IC BU4052BF
IC006	8-759-981-92 IC RC4558M
IC051	8-759-981-92 IC RC4558M
IC054	8-759-981-92 IC RC4558M
IC055	8-759-932-64 IC BU4052BF
IC056	8-759-981-92 IC RC4558M
IC165	8-759-200-67 IC TC4001BF
IC201	8-759-030-55 IC MC1496MR
IC202	8-759-030-55 IC MC1496MR
IC331	8-759-710-62 IC NJM2344M
IC332	8-759-710-62 IC NJM2344M
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IC401	8-759-711-71 IC NJM2344M
IC402	8-759-711-71 IC NJM2344M
IC601	8-759-200-60 IC TA7060AP
IC602	8-759-200-60 IC TA7060AP
IC603	8-759-400-06 IC AN605P
IC701	8-759-200-60 IC TA7060AP
IC702	8-759-402-33 IC AN607P
IC703	8-752-201-30 IC CX22013
IC704	8-759-969-13 IC SN16913P
IC705	8-759-101-12 IC μ PC311G2
IC801	8-752-009-51 IC CX20095A
IC802	8-752-009-51 IC CX20095A
IC901	8-759-009-10 IC MC14069UBF
IC902	8-759-009-10 IC MC14069UBF
IC903	8-759-100-93 IC μ PC39032

0001	8-729-202-38 TRANSISTOR 2SC3326N
0002	8-729-202-38 TRANSISTOR 2SC3326N
0003	8-729-202-38 TRANSISTOR 2SC3326N
0004	8-729-202-38 TRANSISTOR 2SC3326N
0005	8-729-202-38 TRANSISTOR 2SC3326N
0006	8-729-202-38 TRANSISTOR 2SC3326N
0007	8-729-202-38 TRANSISTOR 2SC3326N
0008	8-729-202-38 TRANSISTOR 2SC3326N
0010	8-729-140-75 TRANSISTOR 2SD9999
0011	8-729-901-06 TRANSISTOR DTA144EX
0051	8-729-202-38 TRANSISTOR 2SC3326N
0052	8-729-202-38 TRANSISTOR 2SC3326N
0053	8-729-202-38 TRANSISTOR 2SC3326N
0054	8-729-202-38 TRANSISTOR 2SC3326N
0055	8-729-202-38 TRANSISTOR 2SC3326N

0056	8-729-202-38 TRANSISTOR 2S
0057	8-729-202-38 TRANSISTOR 2S
0058	8-729-101-07 TRANSISTOR 2S
0059	8-729-901-01 TRANSISTOR DT
0165	8-729-901-06 TRANSISTOR DT
0166	8-729-901-01 TRANSISTOR DT
0167	8-729-100-66 TRANSISTOR 2S
0168	8-729-901-06 TRANSISTOR DT
0169	8-729-901-06 TRANSISTOR DT
0170	8-729-901-06 TRANSISTOR DT
0171	8-729-901-06 TRANSISTOR DT
0172	8-729-100-66 TRANSISTOR 2S
0174	8-729-901-06 TRANSISTOR DT
0175	8-729-901-06 TRANSISTOR DT
0176	8-729-901-06 TRANSISTOR DT

IF-20 BOARD (COMPONENT SIDE)



VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARDS

(TRANSISTOR)

2C	38	TRANSISTOR 25C3326N	0056	8-729-202-38 TRANSISTOR 25C3326N
2C	38	TRANSISTOR 25C3326N	0057	8-729-202-38 TRANSISTOR 25C3326N
2C	38	TRANSISTOR 25C3326N	0060	8-729-101-07 TRANSISTOR 25B798
2C	38	TRANSISTOR 25C3326N	0061	8-729-901-01 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0165	8-729-901-06 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0166	8-729-901-01 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0167	8-729-100-66 TRANSISTOR 25C1623
2C	38	TRANSISTOR 25C3326N	0168	8-729-901-06 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0169	8-729-901-06 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0170	8-729-901-06 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0171	8-729-901-06 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0172	8-729-100-66 TRANSISTOR 25C1623
2C	38	TRANSISTOR 25C3326N	0174	8-729-901-06 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0175	8-729-901-06 TRANSISTOR DT144EK
2C	38	TRANSISTOR 25C3326N	0176	8-729-901-06 TRANSISTOR DT144EK

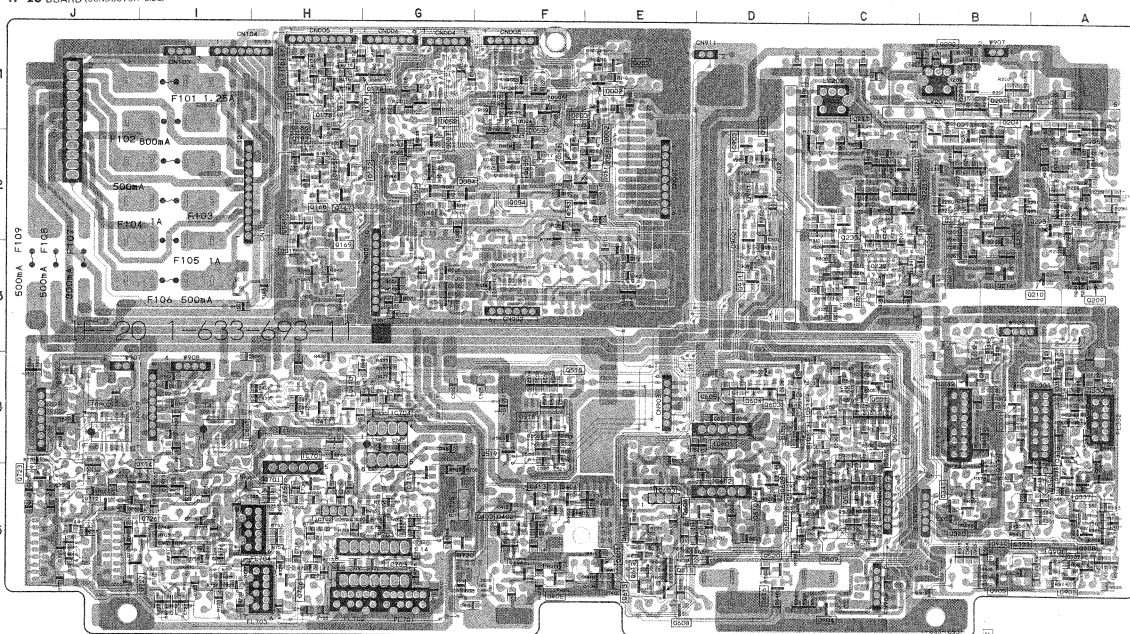
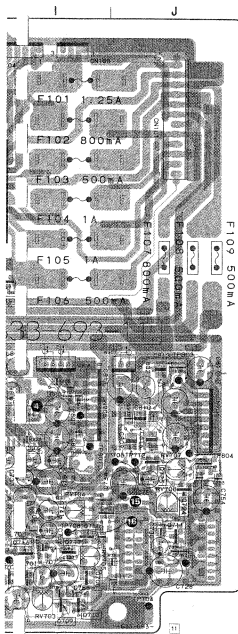
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0178	8-729-901-01 TRANSISTOR DT144EK
0179	8-729-901-06 TRANSISTOR DT144EK
0180	8-729-901-01 TRANSISTOR DT144EK
0181	8-729-901-01 TRANSISTOR DT144EK
0182	8-729-216-22 TRANSISTOR 25A1162
0183	8-729-901-01 TRANSISTOR DT144EK
0184	8-729-901-01 TRANSISTOR DT144EK
0186	8-729-901-06 TRANSISTOR DT144EK
0188	8-729-901-06 TRANSISTOR DT144EK
0191	8-729-216-22 TRANSISTOR 25A1162
0201	8-729-100-66 TRANSISTOR 25C1623
0202	8-729-100-66 TRANSISTOR 25C1623
0203	8-729-100-66 TRANSISTOR 25C1623
0204	8-729-320-17 TRANSISTOR 25A1122CD
0205	8-729-100-66 TRANSISTOR 25C1623
0206	8-729-100-66 TRANSISTOR 25C1623
0207	8-729-100-66 TRANSISTOR 25C1623
0208	8-729-320-17 TRANSISTOR 25A1122CD
0209	8-729-320-17 TRANSISTOR 25A1122CD
0210	8-729-320-17 TRANSISTOR 25A1122CD
0211	8-729-320-17 TRANSISTOR 25A1122CD
0212	8-729-100-66 TRANSISTOR 25C1623
0213	8-729-100-66 TRANSISTOR 25C1623
0214	8-729-100-66 TRANSISTOR 25C1623
0215	8-729-100-66 TRANSISTOR 25C1623
0216	8-729-100-66 TRANSISTOR 25C1623
0217	8-729-100-66 TRANSISTOR 25C1623
0220	8-729-100-66 TRANSISTOR 25C1623
0221	8-729-100-66 TRANSISTOR 25C1623
0222	8-729-100-66 TRANSISTOR 25C1623
0223	8-729-100-66 TRANSISTOR 25C1623
0224	8-729-100-66 TRANSISTOR 25C1623
0225	8-729-100-66 TRANSISTOR 25C1623
0226	8-729-320-17 TRANSISTOR 25A1122CD
0227	8-729-100-66 TRANSISTOR 25C1623
0228	8-729-100-66 TRANSISTOR 25C1623
0229	8-729-100-66 TRANSISTOR 25C1623
0230	8-729-100-66 TRANSISTOR 25C1623
0231	8-729-100-66 TRANSISTOR 25C1623

0233	8-729-100-66 TRANSISTOR 25C1623
0234	8-729-100-66 TRANSISTOR 25C1623
0330	8-729-100-66 TRANSISTOR 25C1623
0331	8-729-100-66 TRANSISTOR 25C1623
0332	8-729-100-66 TRANSISTOR 25C1623
0333	8-729-100-66 TRANSISTOR 25C1623
0334	8-729-100-66 TRANSISTOR 25C1623
0335	8-729-100-66 TRANSISTOR 25C1623
0336	8-729-100-66 TRANSISTOR 25C1623
0337	8-729-100-66 TRANSISTOR 25C1623
0338	8-729-100-66 TRANSISTOR 25C1623
0339	8-729-100-66 TRANSISTOR 25C1623
0340	8-729-100-66 TRANSISTOR 25C1623
0341	8-729-100-66 TRANSISTOR 25C1623
0342	8-729-100-66 TRANSISTOR 25C1623
0401	8-729-100-66 TRANSISTOR 25C1623
0402	8-729-100-66 TRANSISTOR 25C1623
0403	8-729-100-66 TRANSISTOR 25C1623
0404	8-729-100-66 TRANSISTOR 25C1623
0405	8-729-100-66 TRANSISTOR 25C1623

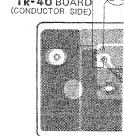
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0407	8-729-100-66 TRANSISTOR 25C1623
0408	8-729-100-66 TRANSISTOR 25C1623
0409	8-729-100-66 TRANSISTOR 25C1623
0410	8-729-100-66 TRANSISTOR 25C1623
0411	8-729-100-66 TRANSISTOR 25C1623
0412	8-729-100-66 TRANSISTOR 25C1623
0413	8-729-100-66 TRANSISTOR 25C1623
0414	8-729-100-66 TRANSISTOR 25C1623
0501	8-729-100-66 TRANSISTOR 25C1623
0502	8-729-100-66 TRANSISTOR 25C1623
0503	8-729-901-06 TRANSISTOR DT144EK
0504	8-729-100-66 TRANSISTOR 25C1623
0505	8-729-100-66 TRANSISTOR 25C1623
0506	8-729-100-66 TRANSISTOR 25C1623
0507	8-729-901-06 TRANSISTOR DT144EK
0508	8-729-100-66 TRANSISTOR 25C1623
0509	8-729-100-66 TRANSISTOR 25C1623
0510	8-729-100-66 TRANSISTOR 25C1623
0511	8-729-100-66 TRANSISTOR 25C1623

0512	8-729-100-66 TRANSISTOR 25C1623
0513	8-729-100-66 TRANSISTOR 25C1623
0514	8-729-100-66 TRANSISTOR 25C1623
0515	8-729-100-66 TRANSISTOR 25C1623
0516	8-729-100-66 TRANSISTOR 25C1623
0517	8-729-901-06 TRANSISTOR DT144EK
0518	8-729-100-66 TRANSISTOR 25C1623
0519	8-729-100-66 TRANSISTOR 25C1623
0520	8-729-901-06 TRANSISTOR DT144EK
0521	8-729-901-06 TRANSISTOR DT144EK
0601	8-729-100-66 TRANSISTOR 25C1623
0602	8-729-901-01 TRANSISTOR DT144EK
0603	8-729-100-66 TRANSISTOR 25C1623
0604	8-729-100-66 TRANSISTOR 25C1623
0605	8-729-100-66 TRANSISTOR 25C1623
0606	8-729-100-66 TRANSISTOR 25C1623
0607	8-729-100-66 TRANSISTOR 25C1623
0608	8-729-100-66 TRANSISTOR 25C1623
0609	8-729-100-66 TRANSISTOR 25C1623
0610	8-729-100-66 TRANSISTOR 25C1623

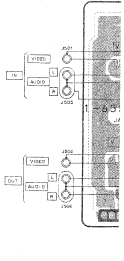
IF-20 BOARD (CONDUCTOR SIDE)



TR-40 BOARD (CONDUCTOR SIDE)



JB-4 B



Q210 8-729-320-17 TRANSISTOR 2SA1122CD
Q211 8-729-320-17 TRANSISTOR 2SA1122CD
Q212 8-729-100-66 TRANSISTOR 2SC1623
Q213 8-729-100-66 TRANSISTOR 2SC1623
Q214 8-729-100-66 TRANSISTOR 2SC1623

Q215 8-729-100-66 TRANSISTOR 2SC1623
Q216 8-729-100-66 TRANSISTOR 2SC1623
Q217 8-729-100-66 TRANSISTOR 2SC1623
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Q221 8-729-100-66 TRANSISTOR 2SC1623

Q222 8-729-100-66 TRANSISTOR 2SC1623
Q223 8-729-100-66 TRANSISTOR 2SC1623
Q224 8-729-100-66 TRANSISTOR 2SC1623
Q225 8-729-100-66 TRANSISTOR 2SC1623
Q226 8-729-320-17 TRANSISTOR 2SA1122CD

Q227 8-729-100-66 TRANSISTOR 2SC1623
Q228 8-729-100-66 TRANSISTOR 2SC1623
Q229 8-729-100-66 TRANSISTOR 2SC1623
Q230 8-729-100-66 TRANSISTOR 2SC1623
Q231 8-729-100-66 TRANSISTOR 2SC1623

Q233 8-729-100-66 TRANSISTOR 2SC1623
Q234 8-729-100-66 TRANSISTOR 2SC1623
Q230 8-729-100-66 TRANSISTOR 2SC1623
Q231 8-729-100-66 TRANSISTOR 2SC1623
Q232 8-729-100-66 TRANSISTOR 2SC1623

Q333 8-729-100-66 TRANSISTOR 2SC1623
Q334 8-729-100-66 TRANSISTOR 2SC1623
Q335 8-729-100-66 TRANSISTOR 2SC1623
Q336 8-729-100-66 TRANSISTOR 2SC1623
Q337 8-729-100-66 TRANSISTOR 2SC1623

Q338 8-729-100-66 TRANSISTOR 2SC1623
Q339 8-729-100-66 TRANSISTOR 2SC1623
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Q342 8-729-100-66 TRANSISTOR 2SC1623

Q401 8-729-100-66 TRANSISTOR 2SC1623
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Q404 8-729-100-66 TRANSISTOR 2SC1623
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Q406 8-729-100-66 TRANSISTOR 2SC1623
Q407 8-729-100-66 TRANSISTOR 2SC1623
Q408 8-729-100-66 TRANSISTOR 2SC1623
Q409 8-729-100-66 TRANSISTOR 2SC1623
Q410 8-729-100-66 TRANSISTOR 2SC1623

Q411 8-729-100-66 TRANSISTOR 2SC1623
Q412 8-729-100-66 TRANSISTOR 2SC1623
Q413 8-729-100-66 TRANSISTOR 2SC1623
Q414 8-729-100-66 TRANSISTOR 2SC1623
Q501 8-729-100-66 TRANSISTOR 2SC1623

Q502 8-729-100-66 TRANSISTOR 2SC1623
Q503 8-729-901-06 TRANSISTOR DTA144EK
Q504 8-729-100-66 TRANSISTOR 2SC1623
Q505 8-729-100-66 TRANSISTOR 2SC1623
Q506 8-729-100-66 TRANSISTOR 2SC1623

Q507 8-729-901-06 TRANSISTOR DTA144EK
Q508 8-729-100-66 TRANSISTOR 2SC1623
Q509 8-729-100-66 TRANSISTOR 2SC1623
Q510 8-729-100-66 TRANSISTOR 2SC1623
Q511 8-729-100-66 TRANSISTOR 2SC1623

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Q516 8-729-100-66 TRANSISTOR 2SC1623

Q517 8-729-901-06 TRANSISTOR DTA144EK
Q518 8-729-100-66 TRANSISTOR 2SC1623
Q519 8-729-100-66 TRANSISTOR 2SC1623
Q520 8-729-901-06 TRANSISTOR DTA144EK
Q521 8-729-901-06 TRANSISTOR DTA144EK

Q601 8-729-100-66 TRANSISTOR 2SC1623
Q602 8-729-901-01 TRANSISTOR DTC144EK
Q603 8-729-100-66 TRANSISTOR 2SC1623
Q604 8-729-100-66 TRANSISTOR 2SC1623
Q605 8-729-100-66 TRANSISTOR 2SC1623

Q606 8-729-100-66 TRANSISTOR 2SC1623
Q607 8-729-100-66 TRANSISTOR 2SC1623
Q608 8-729-100-66 TRANSISTOR 2SC1623
Q609 8-729-100-66 TRANSISTOR 2SC1623
Q610 8-729-100-66 TRANSISTOR 2SC1623

Q611 8-729-100-66 TRANSISTOR 2SC1623
Q612 8-729-901-06 TRANSISTOR DTA144EK
Q613 8-729-901-01 TRANSISTOR DTC144EK
Q614 8-729-901-01 TRANSISTOR DTC144EK
Q615 8-729-901-06 TRANSISTOR DTA144EK

Q616 8-729-901-06 TRANSISTOR DTA144EK
Q701 8-729-100-66 TRANSISTOR 2SC1623
Q702 8-729-100-66 TRANSISTOR 2SC1623
Q703 8-729-202-39 TRANSISTOR 2SC332BN
Q704 8-729-100-66 TRANSISTOR 2SC1623

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Q709 8-729-100-66 TRANSISTOR 2SC1623

Q710 8-729-100-66 TRANSISTOR 2SC1623
Q711 8-729-100-66 TRANSISTOR 2SC1623
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Q713 8-729-100-66 TRANSISTOR 2SC1623
Q714 8-729-100-66 TRANSISTOR 2SC1623

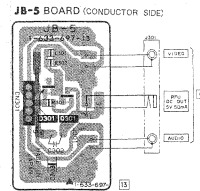
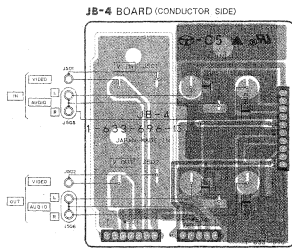
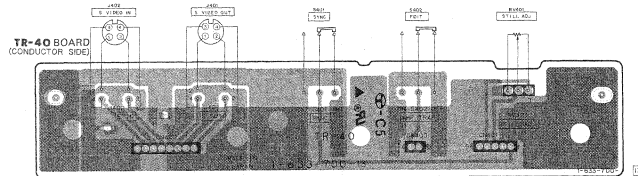
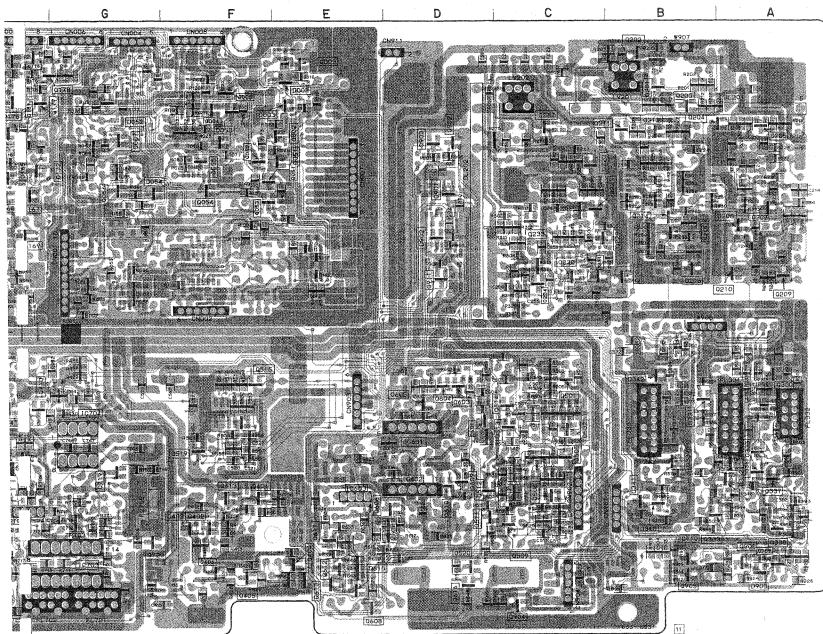
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Q722 8-729-100-66 TRANSISTOR 2SC1623
Q723 8-729-100-66 TRANSISTOR 2SC1623
Q724 8-729-100-66 TRANSISTOR 2SC1623

Q725 8-729-100-66 TRANSISTOR 2SC1623
Q726 8-729-100-66 TRANSISTOR 2SC1623
Q727 8-729-216-22 TRANSISTOR 2SA1162
Q728 8-729-901-01 TRANSISTOR DTC144EK
Q902 8-729-901-01 TRANSISTOR DTC144EK

Q903 8-729-901-01 TRANSISTOR DTC144EK
Q904 8-729-901-01 TRANSISTOR DTC144EK
Q905 8-729-901-05 TRANSISTOR DTA124EK
Q906 8-729-100-66 TRANSISTOR 2SC1623
Q907 8-729-100-66 TRANSISTOR 2SC1623

Q908 8-729-100-66 TRANSISTOR 2SC1623
Q909 8-729-100-66 TRANSISTOR 2SC1623
Q910 8-729-100-66 TRANSISTOR 2SC1623
Q911 8-729-901-06 TRANSISTOR DTA144EK

Q715 8-729-100-66 TRANSISTOR 2SC1623
Q716 8-729-100-66 TRANSISTOR 2SC1623
Q717 8-729-100-66 TRANSISTOR 2SC1623
Q718 8-729-100-66 TRANSISTOR 2SC1623
Q719 8-729-100-66 TRANSISTOR 2SC1623



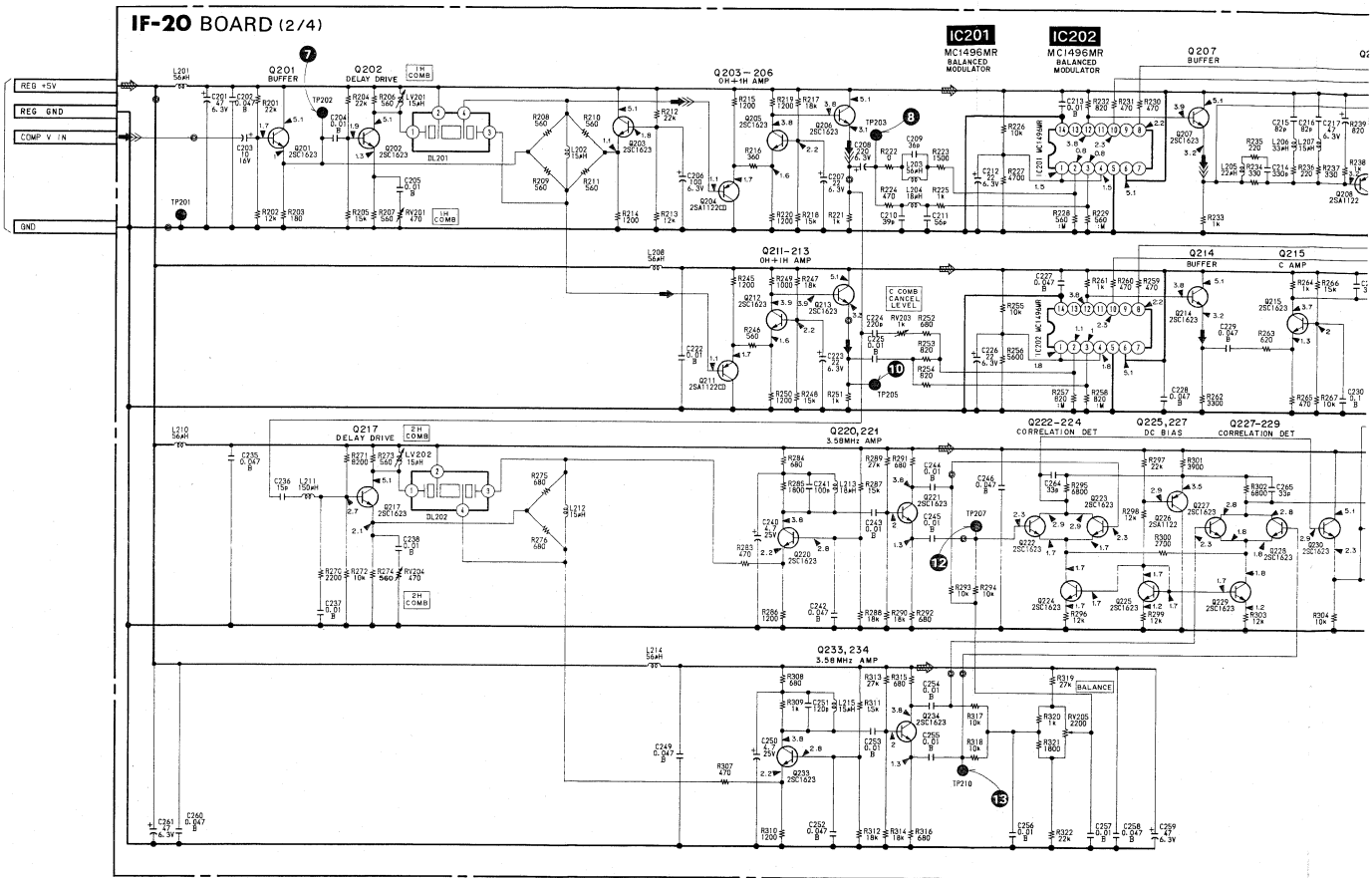
* 1-633-697-11 JB-5 BOARD

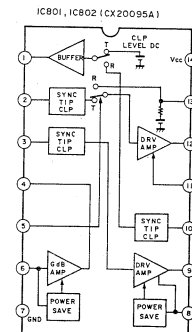
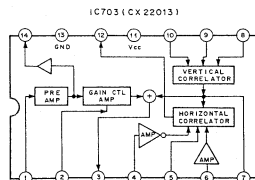
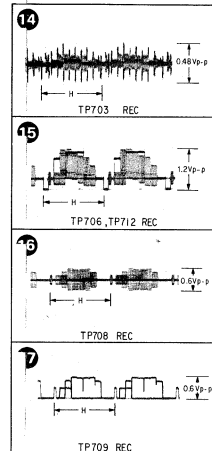
(DIODE)
Q301 8-719-800-76 DIODE 1SS226

(TRANSISTOR)
Q301 8-729-216-22 TRANSISTOR 2SA1162

A
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B
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C
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D
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E
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F
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G
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H
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I
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J

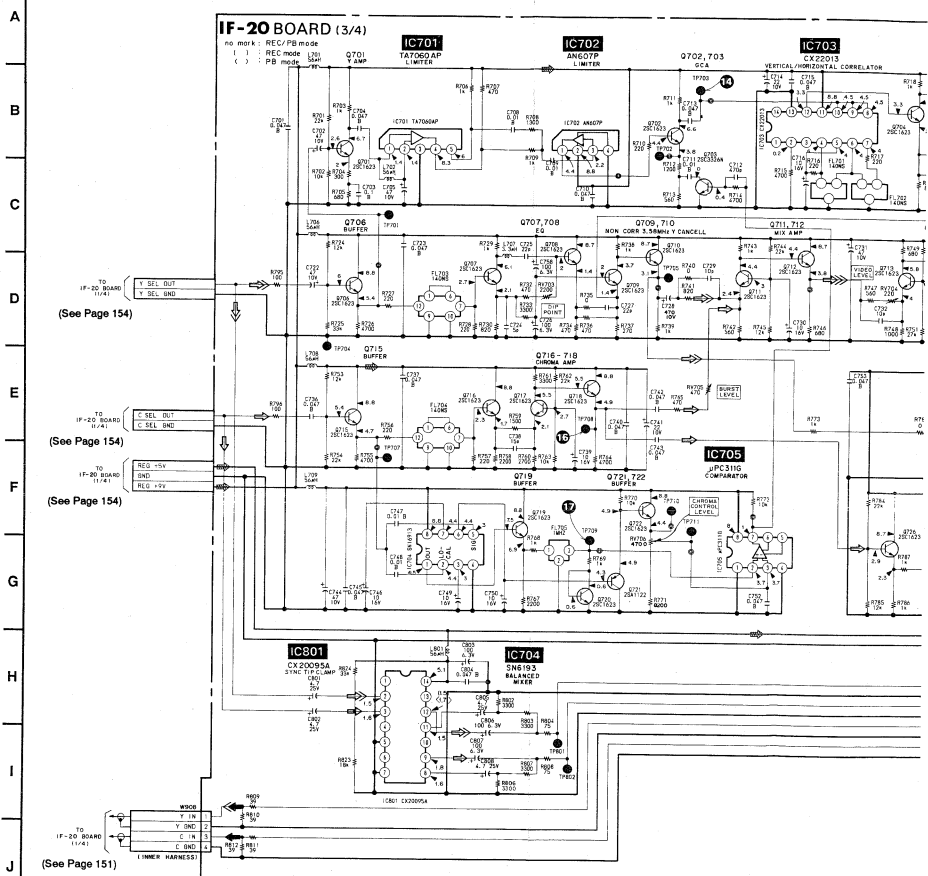
IC202





IF-20 (Y/C MIX), JB-4 (VIDEO, AUDIO JACK), JB-5 (VIDEO, AUDIO, RFU DC OUT JACK), TR-40 (S VIDEO JACK EDIT, SYNC SWITCH) SCHEMATIC

— Ref. No. IF-20 BOARD: 8000 series, JB-4, JB-5, TR-40 BOARD: 3000 series —



(YNC SWITCH) PRINTED WIRING BOARDS

0056 8-729-202-38 TRANSISTOR 25C326N
 0057 8-729-202-38 TRANSISTOR 25C326N
 0060 8-729-101-07 TRANSISTOR 25B798
 0061 8-729-101-01 TRANSISTOR D7C144EK
 0165 8-729-101-06 TRANSISTOR D7A144EK
 0166 8-729-101-01 TRANSISTOR D7C144EK
 0167 8-729-100-66 TRANSISTOR 25C1623
 0168 8-729-101-06 TRANSISTOR D7A144EK
 0169 8-729-101-06 TRANSISTOR D7A144EK
 0170 8-729-101-06 TRANSISTOR D7A144EK
 0171 8-729-101-06 TRANSISTOR D7A144EK
 0172 8-729-100-66 TRANSISTOR 25C1623
 0174 8-729-101-06 TRANSISTOR D7A144EK
 0175 8-729-101-06 TRANSISTOR D7A144EK
 0176 8-729-101-06 TRANSISTOR D7A144EK

0177 8-729-101-06 TRANSISTOR D7A144EK
 0178 8-729-101-01 TRANSISTOR D7C144EK
 0179 8-729-101-06 TRANSISTOR D7A144EK
 0180 8-729-101-01 TRANSISTOR D7C144EK
 0181 8-729-101-01 TRANSISTOR D7C144EK
 0182 8-729-216-22 TRANSISTOR 25A1162
 0183 8-729-101-01 TRANSISTOR D7C144EK
 0184 8-729-101-01 TRANSISTOR D7C144EK
 0186 8-729-101-06 TRANSISTOR D7A144EK
 0188 8-729-101-06 TRANSISTOR D7A144EK
 0191 8-729-216-22 TRANSISTOR 25A1162
 0201 8-729-100-66 TRANSISTOR 25C1623
 0202 8-729-100-66 TRANSISTOR 25C1623
 0203 8-729-100-66 TRANSISTOR 25C1623
 0204 8-729-320-17 TRANSISTOR 25A1122CD
 0205 8-729-100-66 TRANSISTOR 25C1623
 0206 8-729-100-66 TRANSISTOR 25C1623
 0207 8-729-100-66 TRANSISTOR 25C1623
 0208 8-729-320-17 TRANSISTOR 25A1122CD
 0209 8-729-320-17 TRANSISTOR 25A1122CD

0210 8-729-320-17 TRANSISTOR 25A1122CD
 0211 8-729-320-17 TRANSISTOR 25A1122CD
 0212 8-729-100-66 TRANSISTOR 25C1623
 0213 8-729-100-66 TRANSISTOR 25C1623
 0214 8-729-100-66 TRANSISTOR 25C1623
 0215 8-729-100-66 TRANSISTOR 25C1623
 0216 8-729-100-66 TRANSISTOR 25C1623
 0217 8-729-100-66 TRANSISTOR 25C1623
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 0221 8-729-100-66 TRANSISTOR 25C1623
 0222 8-729-100-66 TRANSISTOR 25C1623
 0223 8-729-100-66 TRANSISTOR 25C1623
 0224 8-729-100-66 TRANSISTOR 25C1623
 0225 8-729-100-66 TRANSISTOR 25C1623
 0226 8-729-320-17 TRANSISTOR 25A1122CD
 0227 8-729-100-66 TRANSISTOR 25C1623
 0228 8-729-100-66 TRANSISTOR 25C1623
 0229 8-729-100-66 TRANSISTOR 25C1623
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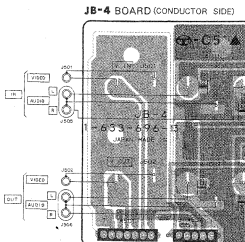
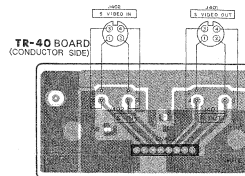
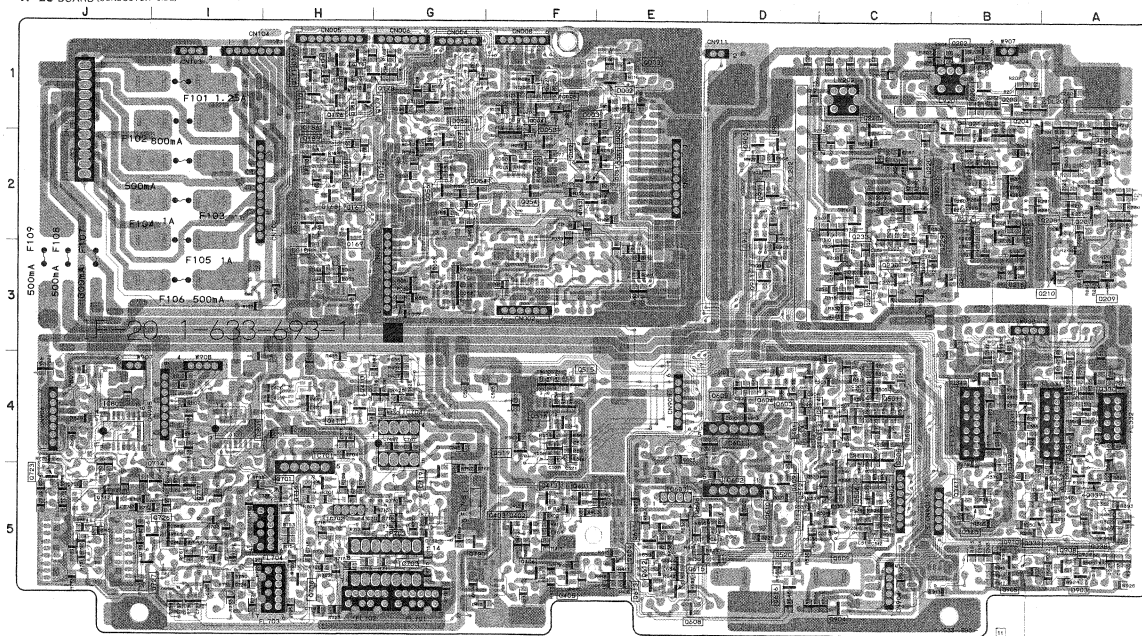
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 0718 8-729-100-66
 0719 8-729-100-66

IF-20 BOARD (CONDUCTOR SIDE)



144EK	Q210	8-729-320-17 TRANSISTOR 2SA1122CD
14 K	Q211	8-729-320-17 TRANSISTOR 2SA1122CD
14 K	Q212	8-729-100-66 TRANSISTOR 2SC1623
144EK	Q213	8-729-100-66 TRANSISTOR 2SC1623
144EK	Q214	8-729-100-66 TRANSISTOR 2SC1623
11	Q215	8-729-100-66 TRANSISTOR 2SC1623
144EK	Q216	8-729-100-66 TRANSISTOR 2SC1623
144EK	Q217	8-729-100-66 TRANSISTOR 2SC1623
14 K	Q220	8-729-100-66 TRANSISTOR 2SC1623
14 K	Q221	8-729-100-66 TRANSISTOR 2SC1623
1162	Q222	8-729-100-66 TRANSISTOR 2SC1623
1162	Q223	8-729-100-66 TRANSISTOR 2SC1623
1162	Q224	8-729-100-66 TRANSISTOR 2SC1623
1162	Q225	8-729-100-66 TRANSISTOR 2SC1623
1122CD	Q226	8-729-320-17 TRANSISTOR 2SA1122CD
11	Q227	8-729-100-66 TRANSISTOR 2SC1623
1162	Q228	8-729-100-66 TRANSISTOR 2SC1623
1162	Q229	8-729-100-66 TRANSISTOR 2SC1623
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11 CD	Q231	8-729-100-66 TRANSISTOR 2SC1623

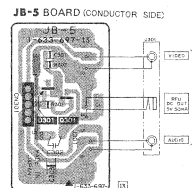
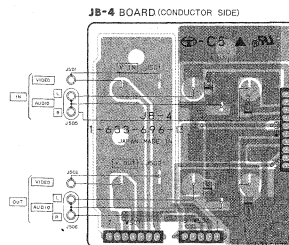
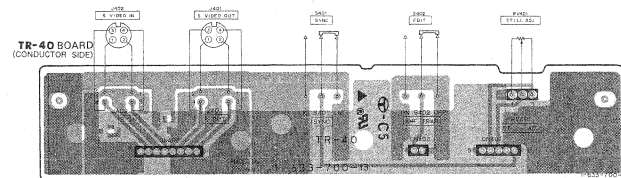
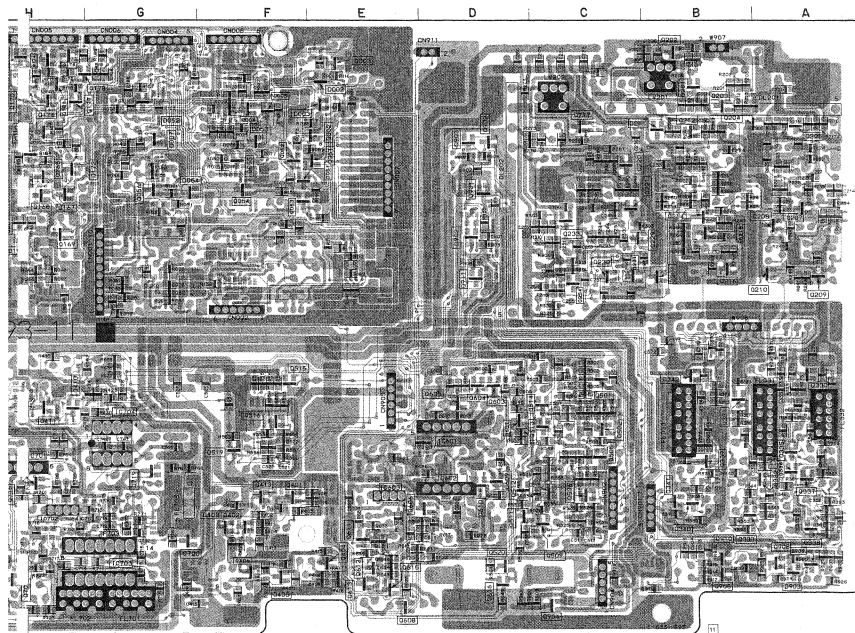
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Q610	8-729-100-66 TRANSISTOR 2SC1623

Q611	8-729-100-66 TRANSISTOR 2SC1623
Q612	8-729-901-06 TRANSISTOR DTA144EK
Q613	8-729-901-01 TRANSISTOR DTC144EK
Q614	8-729-901-01 TRANSISTOR DTC144EK
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Q616	8-729-901-06 TRANSISTOR DTA144EK
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Q717	8-729-100-66 TRANSISTOR 2SC1623
Q718	8-729-100-66 TRANSISTOR 2SC1623
Q719	8-729-100-66 TRANSISTOR 2SC1623

Q720	8-729-100-66 TRANSISTOR 2SC1623
Q721	8-729-320-17 TRANSISTOR 2SA1122CD
Q722	8-729-100-66 TRANSISTOR 2SC1623
Q723	8-729-100-66 TRANSISTOR 2SC1623
Q724	8-729-100-66 TRANSISTOR 2SC1623
Q725	8-729-100-66 TRANSISTOR 2SC1623
Q726	8-729-100-66 TRANSISTOR 2SC1623
Q727	8-729-216-22 TRANSISTOR 2SA1162
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Q903	8-729-901-01 TRANSISTOR DTC144EK
Q904	8-729-901-01 TRANSISTOR DTC144EK
Q905	8-729-901-05 TRANSISTOR DTA124EK
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Q911	8-729-901-06 TRANSISTOR DTA144EK



* 1-633-697-11 JB-5 BOARD *****

- (DIODE)
- D301 8-719-800-76 DIODE 1SS226
- (TRANSISTOR)
- Q301 8-729-216-22 TRANSISTOR 2SA1162

VIDEO JACK EDIT, SYNC SWITCH) PRINTED WIRING BOARDS

(TRANSISTOR)

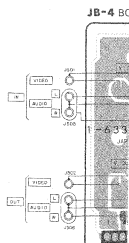
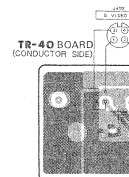
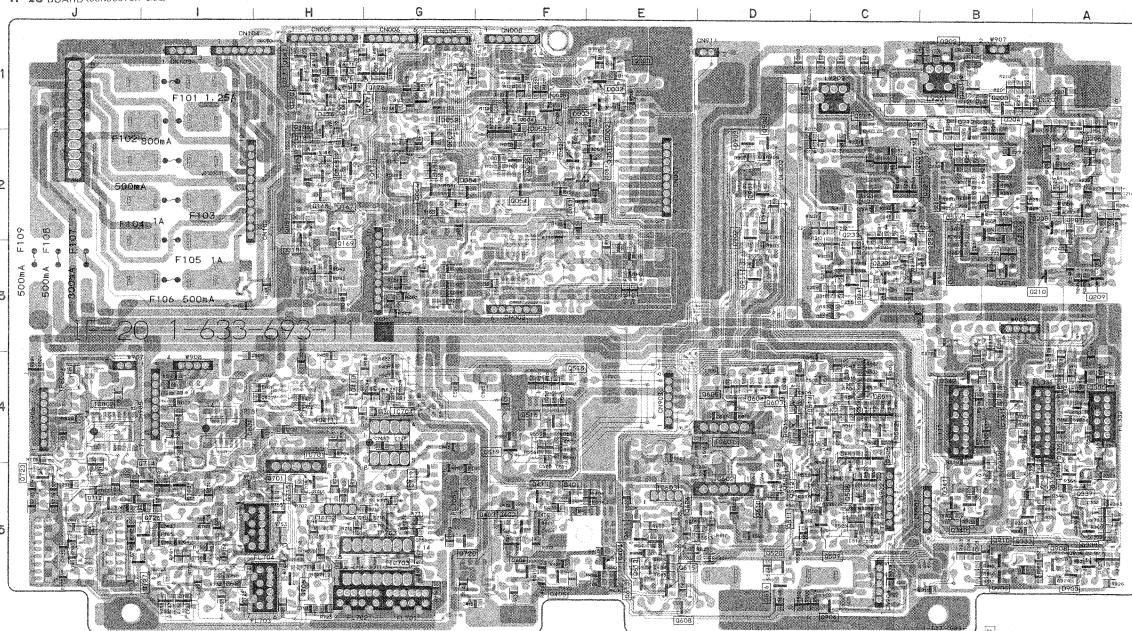
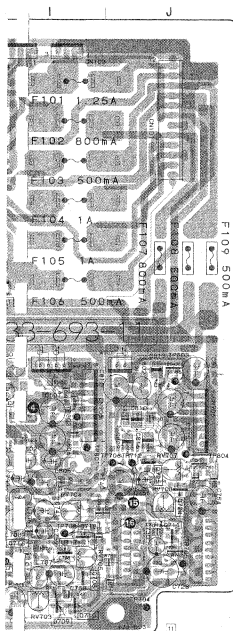
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12	TRANSISTOR 25C3326N	0166	8-729-901-01 TRANSISTOR DTC144EX	0176	8-729-901-06 TRANSISTOR DTA144EX
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11-06	TRANSISTOR DTA144EX	0181	8-729-901-01 TRANSISTOR DTC144EX	0182	8-729-216-22 TRANSISTOR 25A1162
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12	TRANSISTOR 25C3326N	0203	8-729-100-66 TRANSISTOR 25C1623	0203	8-729-100-66 TRANSISTOR 25C1623
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12	TRANSISTOR 25C3326N	0206	8-729-100-66 TRANSISTOR 25C1623	0206	8-729-100-66 TRANSISTOR 25C1623
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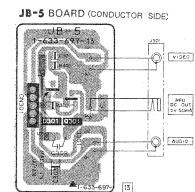
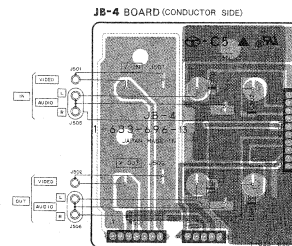
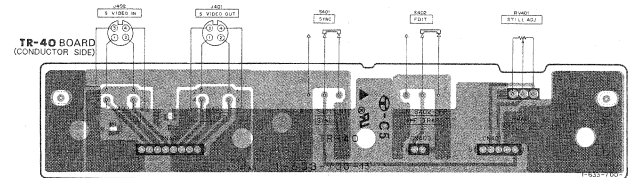
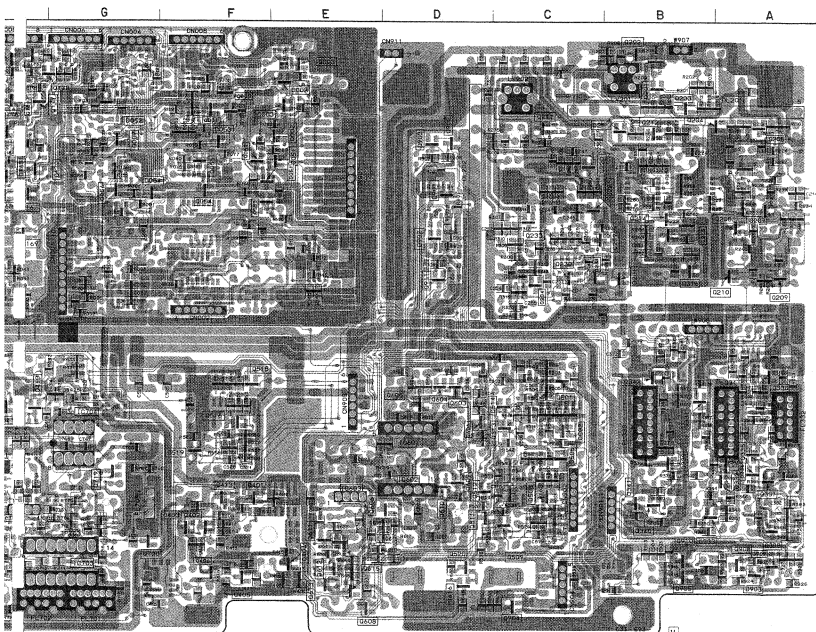
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0606	8-729-100-66 TRANSISTOR 25C1623		
0607	8-729-100-66 TRANSISTOR 25C1623		
0608	8-729-100-66 TRANSISTOR 25C1623		
0609	8-729-100-66 TRANSISTOR 25C1623		
0610	8-729-100-66 TRANSISTOR 25C1623		

IF-20 BOARD (CONDUCTOR SIDE)



0210	8-729-320-17 TRANSISTOR 2SA1122CD	0233	8-729-100-66 TRANSISTOR 2SC1623	0406	8-729-100-66 TRANSISTOR 2SC1623	0512	8-729-100-66 TRANSISTOR 2SC1623	0611	8-729-100-66 TRANSISTOR 2SC1623	0720	8-729-100-66 TRANSISTOR 2SC1623
0211	8-729-320-17 TRANSISTOR 2SA1122CD	0234	8-729-100-66 TRANSISTOR 2SC1623	0407	8-729-100-66 TRANSISTOR 2SC1623	0513	8-729-100-66 TRANSISTOR 2SC1623	0612	8-729-901-06 TRANSISTOR DTA144EK	0721	8-729-320-17 TRANSISTOR 2SA1122CD
0212	8-729-100-66 TRANSISTOR 2SC1623	0330	8-729-100-66 TRANSISTOR 2SC1623	0408	8-729-100-66 TRANSISTOR 2SC1623	0514	8-729-100-66 TRANSISTOR 2SC1623	0613	8-729-901-01 TRANSISTOR DTC144EK	0722	8-729-100-66 TRANSISTOR 2SC1623
0213	8-729-100-66 TRANSISTOR 2SC1623	0331	8-729-100-66 TRANSISTOR 2SC1623	0409	8-729-100-66 TRANSISTOR 2SC1623	0515	8-729-100-66 TRANSISTOR 2SC1623	0614	8-729-901-01 TRANSISTOR DTC144EK	0723	8-729-100-66 TRANSISTOR 2SC1623
0214	8-729-100-66 TRANSISTOR 2SC1623	0332	8-729-100-66 TRANSISTOR 2SC1623	0410	8-729-100-66 TRANSISTOR 2SC1623	0516	8-729-100-66 TRANSISTOR 2SC1623	0615	8-729-901-06 TRANSISTOR DTA144EK	0724	8-729-100-66 TRANSISTOR 2SC1623
0215	8-729-100-66 TRANSISTOR 2SC1623	0333	8-729-100-66 TRANSISTOR 2SC1623	0411	8-729-100-66 TRANSISTOR 2SC1623	0517	8-729-901-06 TRANSISTOR DTA144EK	0616	8-729-901-06 TRANSISTOR DTA144EK	0725	8-729-100-66 TRANSISTOR 2SC1623
0216	8-729-100-66 TRANSISTOR 2SC1623	0334	8-729-100-66 TRANSISTOR 2SC1623	0412	8-729-100-66 TRANSISTOR 2SC1623	0518	8-729-100-66 TRANSISTOR 2SC1623	0701	8-729-100-66 TRANSISTOR 2SC1623	0726	8-729-100-66 TRANSISTOR 2SC1623
0217	8-729-100-66 TRANSISTOR 2SC1623	0335	8-729-100-66 TRANSISTOR 2SC1623	0413	8-729-100-66 TRANSISTOR 2SC1623	0519	8-729-100-66 TRANSISTOR 2SC1623	0702	8-729-100-66 TRANSISTOR 2SC1623	0727	8-729-216-22 TRANSISTOR 2SA1162
0220	8-729-100-66 TRANSISTOR 2SC1623	0336	8-729-100-66 TRANSISTOR 2SC1623	0414	8-729-100-66 TRANSISTOR 2SC1623	0520	8-729-901-06 TRANSISTOR DTA144EK	0703	8-729-202-38 TRANSISTOR 2SC3330N	0901	8-729-901-01 TRANSISTOR DTC144EK
0221	8-729-100-66 TRANSISTOR 2SC1623	0337	8-729-100-66 TRANSISTOR 2SC1623	0501	8-729-100-66 TRANSISTOR 2SC1623	0521	8-729-901-06 TRANSISTOR DTA144EK	0704	8-729-100-66 TRANSISTOR 2SC1623	0902	8-729-901-01 TRANSISTOR DTC144EK
0222	8-729-100-66 TRANSISTOR 2SC1623	0338	8-729-100-66 TRANSISTOR 2SC1623	0502	8-729-100-66 TRANSISTOR 2SC1623	0601	8-729-100-66 TRANSISTOR 2SC1623	0705	8-729-100-66 TRANSISTOR 2SC1623	0903	8-729-901-01 TRANSISTOR DTC144EK
0223	8-729-100-66 TRANSISTOR 2SC1623	0339	8-729-100-66 TRANSISTOR 2SC1623	0503	8-729-901-06 TRANSISTOR DTA144EK	0602	8-729-901-01 TRANSISTOR DTC144EK	0706	8-729-100-66 TRANSISTOR 2SC1623	0904	8-729-901-01 TRANSISTOR DTC144EK
0224	8-729-100-66 TRANSISTOR 2SC1623	0340	8-729-100-66 TRANSISTOR 2SC1623	0504	8-729-100-66 TRANSISTOR 2SC1623	0603	8-729-100-66 TRANSISTOR 2SC1623	0707	8-729-100-66 TRANSISTOR 2SC1623	0905	8-729-901-05 TRANSISTOR DTA144EK
0225	8-729-100-66 TRANSISTOR 2SC1623	0341	8-729-100-66 TRANSISTOR 2SC1623	0505	8-729-100-66 TRANSISTOR 2SC1623	0604	8-729-100-66 TRANSISTOR 2SC1623	0708	8-729-100-66 TRANSISTOR 2SC1623	0906	8-729-100-66 TRANSISTOR 2SC1623
0226	8-729-320-17 TRANSISTOR 2SA1122CD	0342	8-729-100-66 TRANSISTOR 2SC1623	0506	8-729-100-66 TRANSISTOR 2SC1623	0605	8-729-100-66 TRANSISTOR 2SC1623	0709	8-729-100-66 TRANSISTOR 2SC1623	0907	8-729-100-66 TRANSISTOR 2SC1623
0227	8-729-100-66 TRANSISTOR 2SC1623	0401	8-729-100-66 TRANSISTOR 2SC1623	0507	8-729-901-06 TRANSISTOR DTA144EK	0606	8-729-100-66 TRANSISTOR 2SC1623	0710	8-729-100-66 TRANSISTOR 2SC1623	0908	8-729-100-66 TRANSISTOR 2SC1623
0228	8-729-100-66 TRANSISTOR 2SC1623	0402	8-729-100-66 TRANSISTOR 2SC1623	0508	8-729-100-66 TRANSISTOR 2SC1623	0607	8-729-100-66 TRANSISTOR 2SC1623	0711	8-729-100-66 TRANSISTOR 2SC1623	0909	8-729-100-66 TRANSISTOR 2SC1623
0229	8-729-100-66 TRANSISTOR 2SC1623	0403	8-729-100-66 TRANSISTOR 2SC1623	0509	8-729-100-66 TRANSISTOR 2SC1623	0608	8-729-100-66 TRANSISTOR 2SC1623	0712	8-729-100-66 TRANSISTOR 2SC1623	0910	8-729-100-66 TRANSISTOR 2SC1623
0230	8-729-100-66 TRANSISTOR 2SC1623	0404	8-729-100-66 TRANSISTOR 2SC1623	0510	8-729-100-66 TRANSISTOR 2SC1623	0609	8-729-100-66 TRANSISTOR 2SC1623	0713	8-729-100-66 TRANSISTOR 2SC1623	0911	8-729-901-06 TRANSISTOR DTA144EK
0231	8-729-100-66 TRANSISTOR 2SC1623	0405	8-729-100-66 TRANSISTOR 2SC1623	0511	8-729-100-66 TRANSISTOR 2SC1623	0610	8-729-100-66 TRANSISTOR 2SC1623	0714	8-729-100-66 TRANSISTOR 2SC1623		

0715 8-729-100-66 TRANSISTOR 2SC1623
0716 8-729-100-66 TRANSISTOR 2SC1623
0717 8-729-100-66 TRANSISTOR 2SC1623
0718 8-729-100-66 TRANSISTOR 2SC1623
0719 8-729-100-66 TRANSISTOR 2SC1623



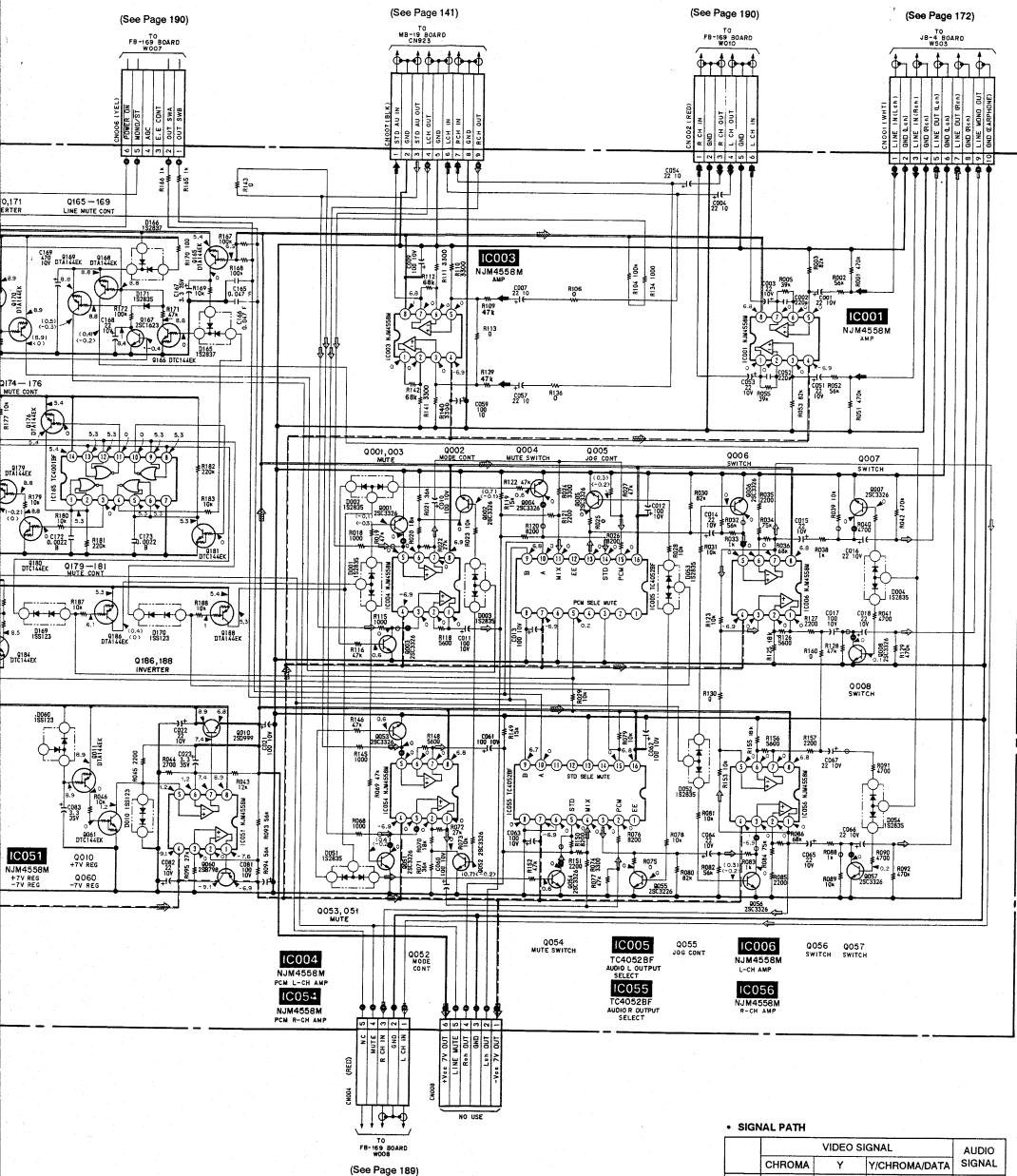
* 1-633-697-11 JB-5 BOARD

(DIODE)
D301 8-719-800-76 DIODE 1SS226
(TRANSISTOR)
Q301 8-729-216-22 TRANSISTOR 2SA1162

1	2	3	4	5	6	7	8
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A	
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
N	
O	





FB-169 (FUNCTION CONTROL, FUNCTION SWITCH), TC-20 (LED INDICATOR), MJ-25 (MIC IN), HE-2 (HEADPHONE OUT) PRINTED WIRING BOARDS

— Ref. No. HE-2 BOARD: 6000 series, FB-169, MJ-25, TC-20 BOARD: 9000 series —

* A-7062-654-A FB-169 (P) BOARD, COMPLETE

{ DIODE }

D001	8-719-800-76 DIODE 1SS226
D009	8-719-945-92 DIODE GL5H542 (STANDBY)
D010	8-719-920-05 DIODE TLG123A (POWER)
D011	8-719-907-92 DIODE GL5E641 (PCM)
D012	8-719-941-46 DIODE GL5H41 (SP)
D013	8-719-941-46 DIODE GL5H41 (SP)
D014	8-719-918-96 DIODE TL0123 (ID)
D015	8-719-812-32 DIODE TLY123 (→)
D016	8-719-920-05 DIODE TLG123A (→)
D017	8-719-812-32 DIODE TLY123 (←)
D018	8-719-939-36 DIODE GL5H42 (▲)
D019	8-719-812-31 DIODE TLR123 (●)
D020	8-719-913-59 DIODE LT-9230N (H18)
D024	8-719-906-58 DIODE GL5H41 (TIMER REC)
D025	8-719-812-31 DIODE TLR123 (AUDIO DUB)
D026	8-719-812-31 DIODE TLR123 (TC DUB)
D101	8-719-104-34 DIODE 1S2836
D102	8-719-104-34 DIODE 1S2836
D103	1-520-503-11 METER UNIT, LED LEVEL

D155	8-719-104-34 DIODE 1S2836
D156	8-719-104-34 DIODE 1S2836
D157	8-719-104-18 DIODE MA152WK
D158	8-719-104-34 DIODE 1S2836

{ IC }

IC001	8-752-830-17 IC CXP5046H-2620
IC002	8-759-937-56 IC S-8054ALB-LM-5
IC003	8-741-100-48 IC SBX1610-59
IC004	8-759-927-46 IC SN74HC00ANS
IC101	8-759-981-XK IC NJM4550M
IC102	8-759-300-71 IC TC4053BFBH
IC152	8-759-981-92 IC NJM4558M
IC153	8-759-981-92 IC NJM4558M
IC154	8-759-700-62 IC NJM4562M

{ TRANSISTOR }

Q012	8-729-901-06 TRANSISTOR DTA144EK
Q013	8-729-140-88 TRANSISTOR FP1A3M
Q015	8-729-216-22 TRANSISTOR 2SA1162
Q016	8-729-900-53 TRANSISTOR DTC114EK
Q017	8-729-901-06 TRANSISTOR DTA144EK

Q018	8-729-901-06 TRANSISTOR DTA144EK
Q019	8-729-901-01 TRANSISTOR DTC144EK
Q101	8-729-901-01 TRANSISTOR DTC144EK
Q103	8-729-216-22 TRANSISTOR 2SA1162
Q104	8-729-100-66 TRANSISTOR 2SC1623
Q105	8-729-202-38 TRANSISTOR 2SC3326N
Q106	8-729-202-38 TRANSISTOR 2SC3326N
Q153	8-729-202-38 TRANSISTOR 2SC3326N
Q154	8-729-202-38 TRANSISTOR 2SC3326N
Q155	8-729-202-38 TRANSISTOR 2SC3326N
Q156	8-729-100-66 TRANSISTOR 2SC1623
Q157	8-729-901-06 TRANSISTOR DTA144EK
Q158	8-729-901-06 TRANSISTOR DTA144EK
Q159	8-729-901-01 TRANSISTOR DTC144EK
Q160	8-729-140-75 TRANSISTOR 2SD999-CLCK
Q161	8-729-101-07 TRANSISTOR 2SB798-DL0K
Q162	8-729-202-38 TRANSISTOR 2SC3326N

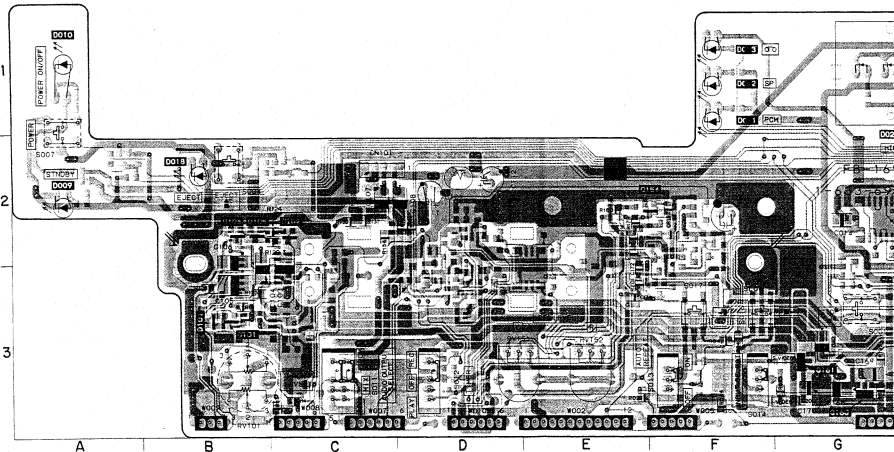
FB-169 BOARD
(COMPONENT
SIDE)

D001 I-2
D008 O-3
D009 A-2
D010 A-1
D011 F-1
D012 F-1
D013 F-1
D014 K-2
D015 J-3
D016 I-2
D017 H-2
D018 B-2
D019 K-2
D020 G-2
D024 K-1
D026 J-3
D028 H-3
D031 B-3
D032 D-2
D033 D-3
D034 D-2
D035 D-2

IC001 I-2
IC003 I-1

Q101 B-3
Q105 B-2
Q106 B-2
Q151 D-3
Q154 F-2
Q156 I-3
Q160 O-3
Q161 O-3

FB-169 BOARD (COMPONENT SIDE)

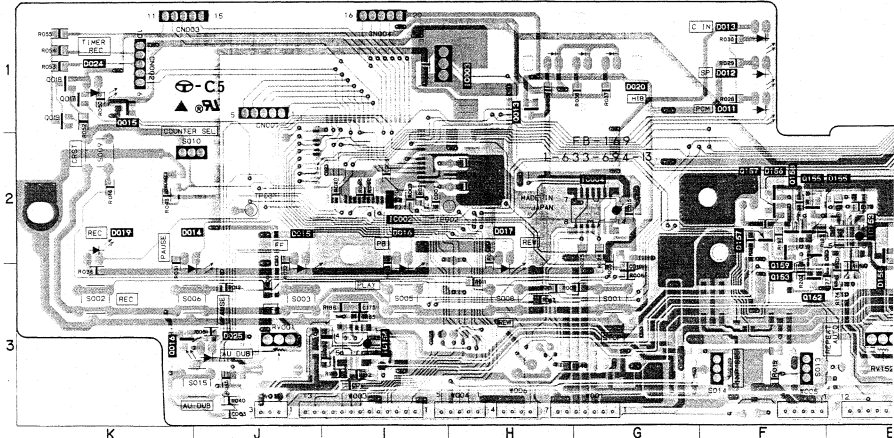
FB-169 BOARD
(CONDUCTOR
SIDE)

D002 O-2
D003 C-2
D004 A-2
D005 D-3
D006 D-3
D007 F-3
D021 J-2
D023 J-3
D152 D-2
D155 F-2
D156 F-2
D157 F-2
D158 E-3

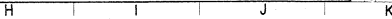
IC002 I-2
IC004 O-2
IC101 B-3
IC102 B-2
IC152 E-2
IC153 E-2
IC154 I-3

Q102 A-2
Q103 H-1
Q105 K-1
Q106 K-3
Q107 K-3
Q108 K-3
Q109 K-3
Q110 C-3
Q112 D-3
Q113 F-3
Q115 F-2
Q116 F-2
Q117 F-2
Q118 F-2
Q119 F-2
Q120 F-2
Q121 F-2
Q122 F-2
Q123 F-2
Q124 F-2
Q125 F-2
Q126 F-2
Q127 F-2
Q128 F-2
Q129 F-2
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Q137 F-2
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Q142 F-2
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Q152 F-2
Q153 F-2
Q154 F-2
Q155 F-2
Q156 F-2
Q157 F-2
Q158 F-2
Q159 F-2
Q160 F-2
Q161 F-2
Q162 F-2

FB-169 BOARD (CONDUCTOR SIDE)

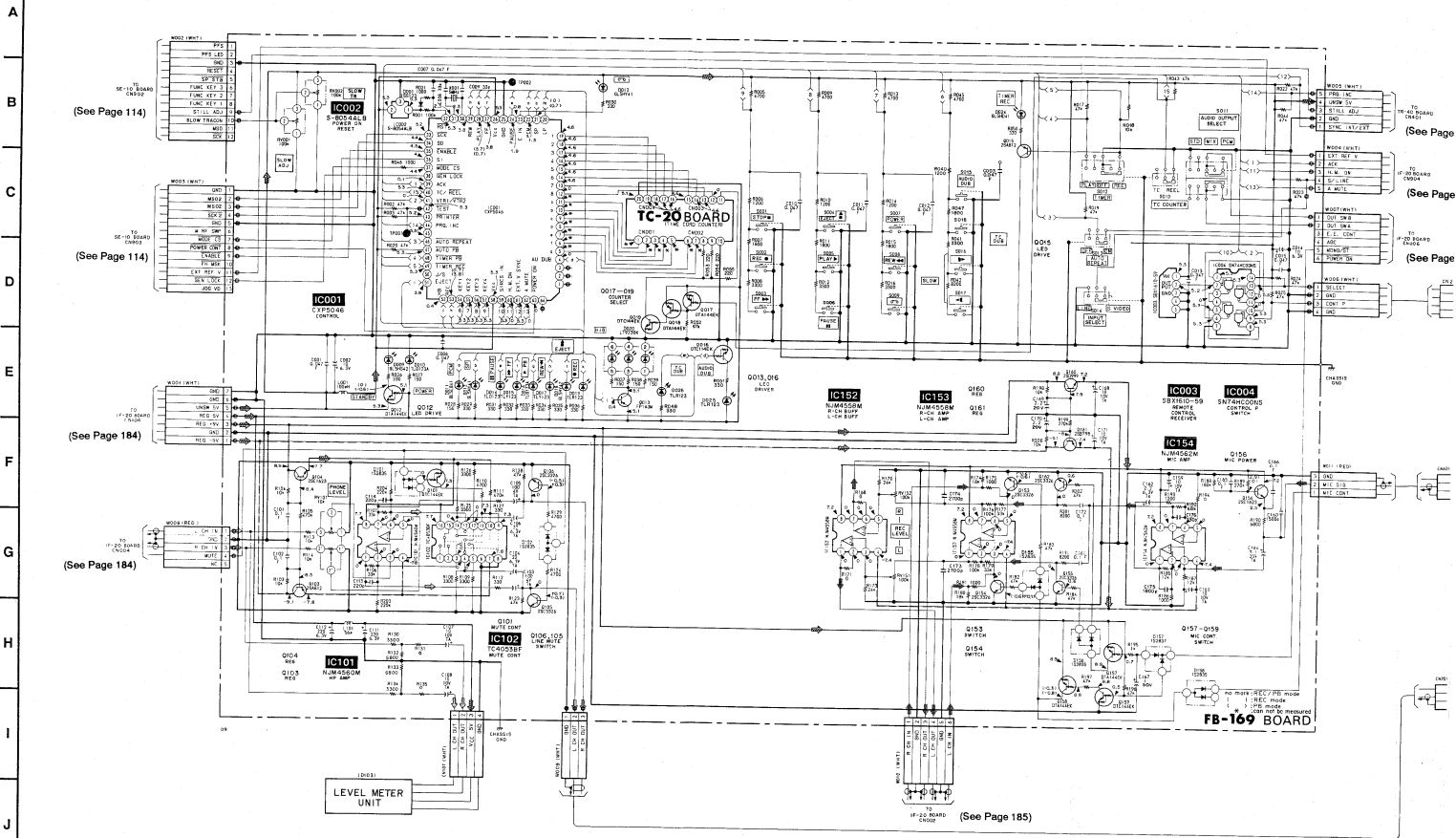


Q711	8-729-900-53	TRANSISTOR	DTC114EK
Q712	8-729-900-53	TRANSISTOR	DTC114EK
Q713	8-729-900-53	TRANSISTOR	DTC114EK
Q714	8-729-900-53	TRANSISTOR	DTC114EK
Q715	8-729-900-53	TRANSISTOR	DTC114EK

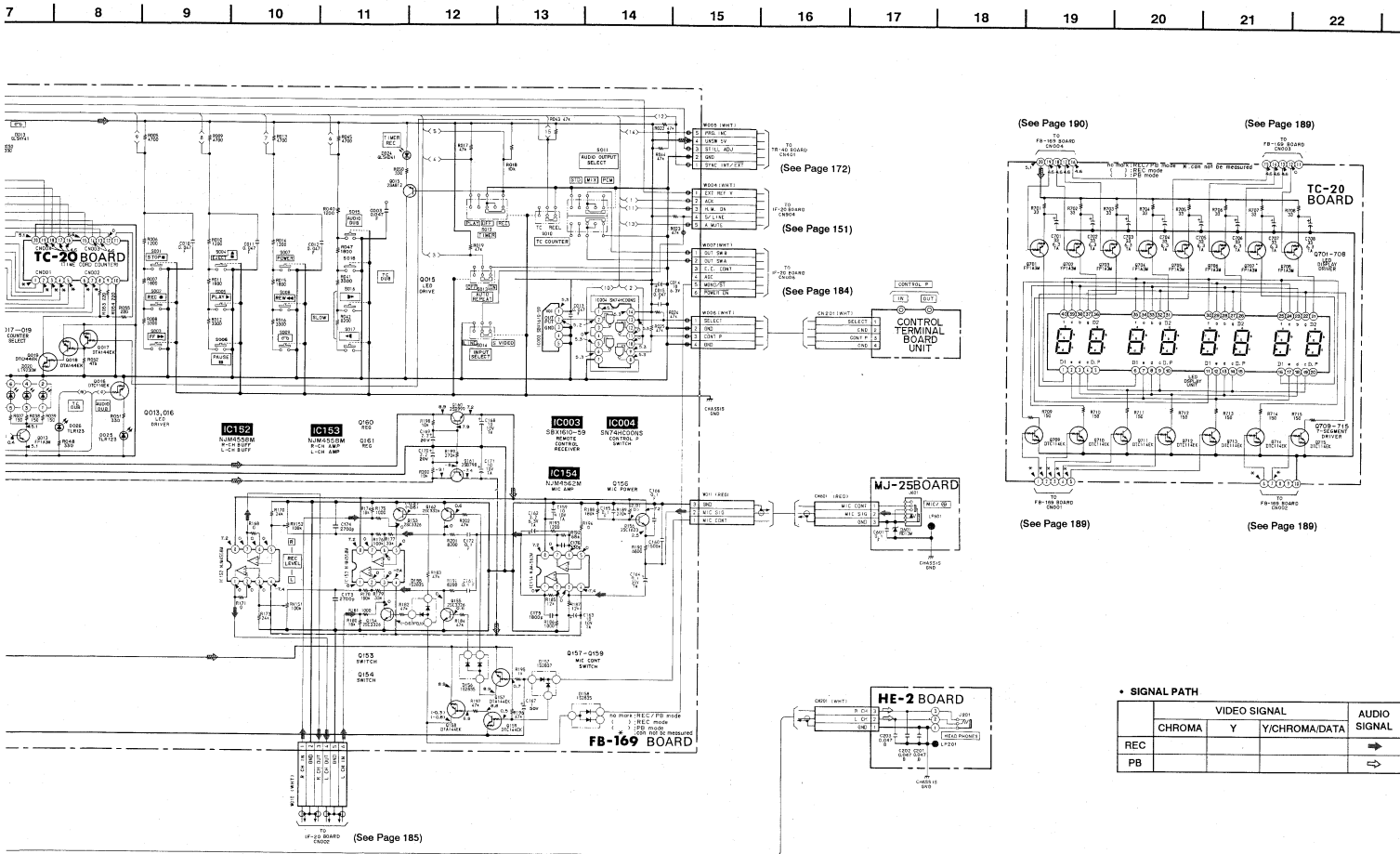


D601 8-719-106-80 DIODE RD13M-B1

— Ref. No. HE-2 BOARD: 6000 series, FB-169, MJ-25, TC-20 BOARD: 9000 series —

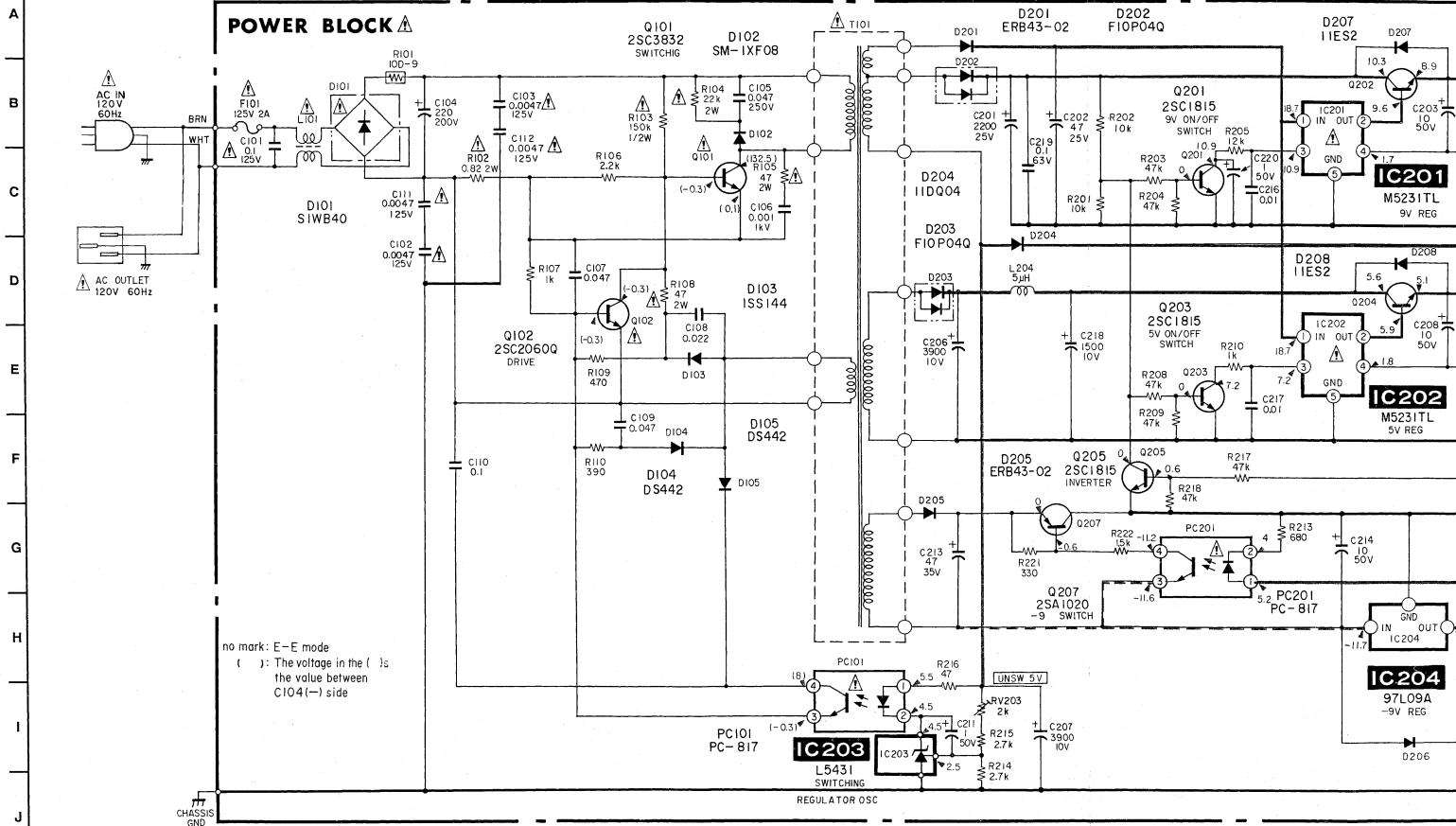


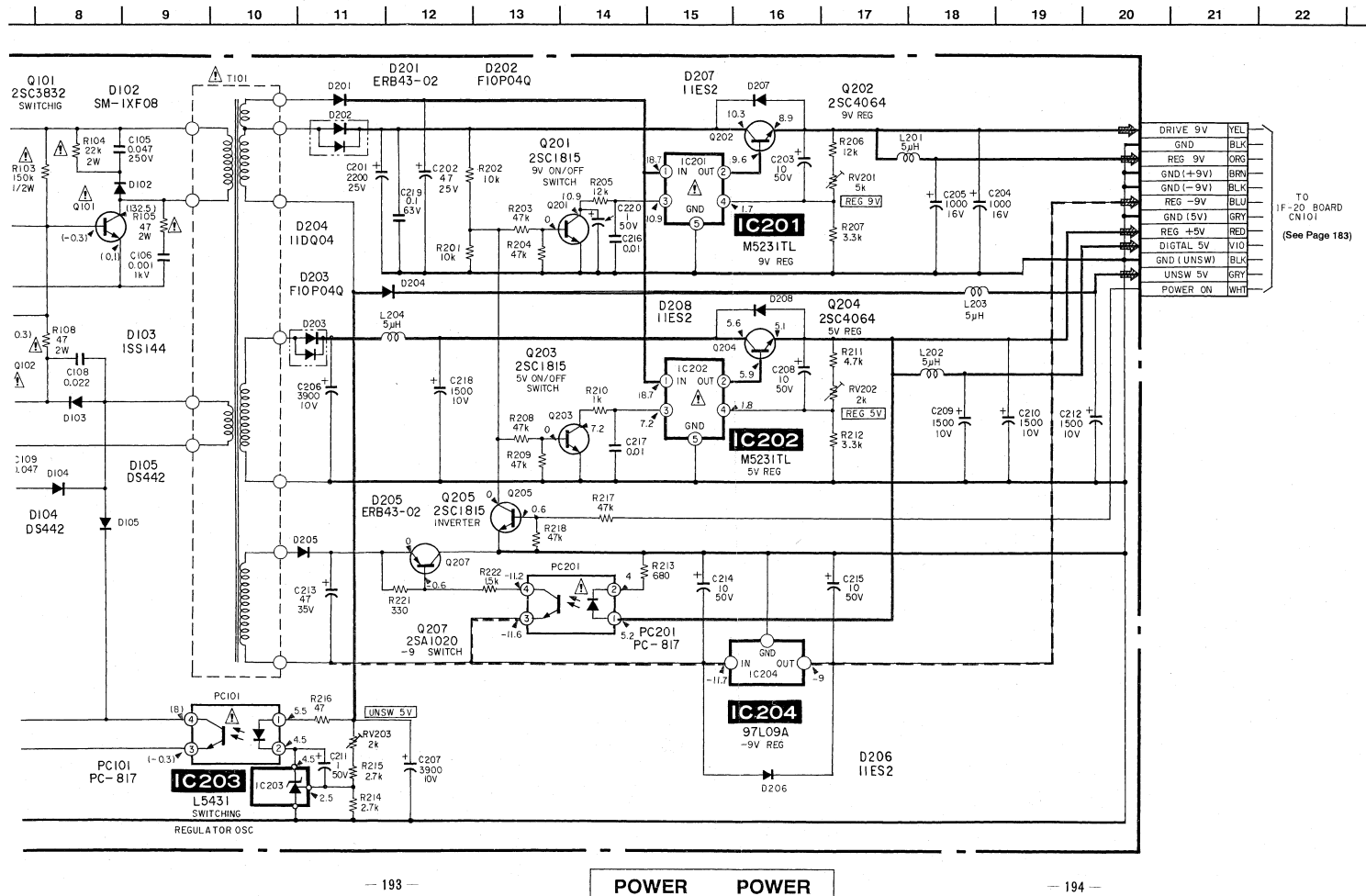
5-2 (HEADPHONE OUT) SCHEMATIC DIAGRAMS



POWER BLOCK SCHEMATIC DIAGRAM

— Ref. No. POWER BLOCK: 10000 series —





POWER BLOCK PRINTED WIRING BOARD

— Ref. No. POWER BLOCK: 10000 series —

1-413-519-11 POWER BLOCK

(DIODE)

D101 8-719-500-04 DIODE S1W840
 D102 9-993-709-01 DIODE SM-1FX08
 D103 9-993-710-01 DIODE 1SS144
 D104 9-993-711-01 DIODE DS442
 D105 9-993-711-01 DIODE DS442

D201 8-719-907-40 DIODE ERB43-02
 D202 9-993-712-01 DIODE F10P040
 D203 9-993-712-01 DIODE F10P040
 D204 8-719-200-29 DIODE 11D004
 D205 8-719-907-40 DIODE ERB43-02
 D206 8-719-200-82 DIODE 11ES2
 D207 8-719-200-82 DIODE 11ES2
 D208 8-719-200-82 DIODE 11ES2

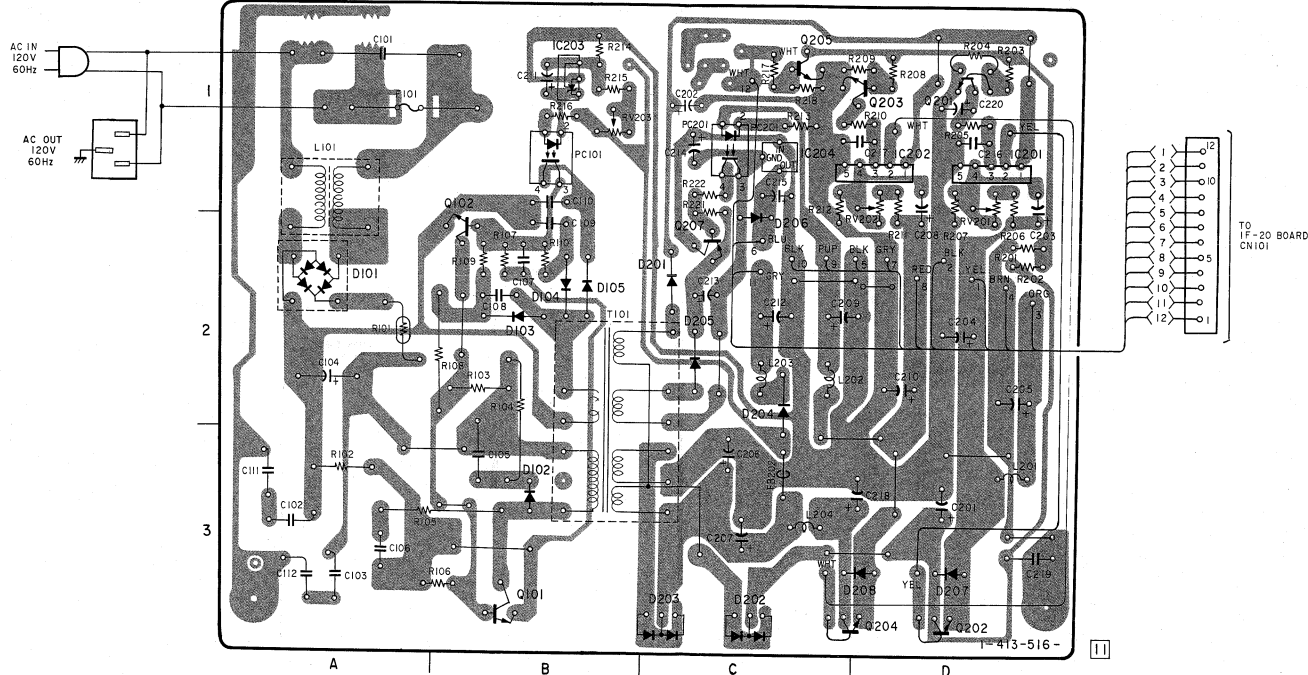
(IC)

IC201 8-759-805-43 IC M5231TL
 IC202 8-759-805-43 IC M5231TL
 IC203 9-993-714-01 IC L5431
 IC204 9-993-707-01 IC 97L09A

(TRANSISTOR)

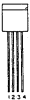
Q101 8-729-303-04 TRANSISTOR 2SC3832
 Q102 8-729-906-02 TRANSISTOR 2SC20800
 Q201 8-729-281-53 TRANSISTOR 2SC1815
 Q202 9-993-708-01 TRANSISTOR 2SC4084
 Q203 8-729-281-53 TRANSISTOR 2SC1815
 Q204 9-993-708-01 TRANSISTOR 2SC4084
 Q205 8-729-281-53 TRANSISTOR 2SC1815
 Q207 8-729-202-45 TRANSISTOR 2SA1020

POWER BLOCK (CONDUCTOR SIDE)



4-3. SEMICONDUCTORS

AN807P
AN808P



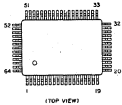
BA401
TA7080AP



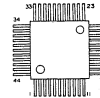
BA7036LS



CF77305FT
CFP5024H
CXP5048H-204Q
CXP5048H-205Q
CXP5048H-210Q
 μ PD75106G-573-1B
 μ PD75106G-589-1B



CF77309FR



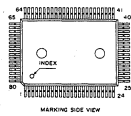
CXA1047M
LB1616M



CXA1109M
TA8607F



CXP80116-638Q



MC14069UBF
MC1496MR
RC3403AM



NJM2234M
NJM2238M
NJM2246M
RC3414M



SBX1595-01



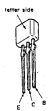
TA7745F



TL431CLP



2SA1175-HFE



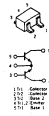
2SA1385-ZL
2SC3516



2SC3327-B
DTA144ES



FMG2



IMX1



IMZ1



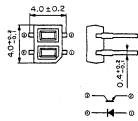
NJL7141E



1SS119
RD5.1ESB2
RD5.1ESB3



GP2509-B



AA3422S



GL-450S



GL-5EG521-B



GL-5HD21
GL-SHY41



GL-5HS42
GL-SHY42



LB-202DB



LT-9230D



SLP281C-50
TLR123
TLY123



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C742	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	C910	1-126-157-11	ELECT 10uF 20% 16V	
C743	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	C911	1-126-157-11	ELECT 10uF 20% 16V	
C744	1-124-589-11	ELECT	47uF 20% 16V			(CONNECTOR)	
C745	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V				
C746	1-126-157-11	ELECT	10uF 20% 16V	CN001	1-506-475-11	CONNECTOR 10P, MALE	
				CN002	1-506-471-11	CONNECTOR 6P, MALE	
C747	1-164-232-11	CERAMIC CHIP	0.01uF 50V	CN004	1-506-470-11	CONNECTOR 5P, MALE	
C748	1-164-232-11	CERAMIC CHIP	0.01uF 50V	CN005	1-506-473-11	CONNECTOR 8P, MALE	
C749	1-126-157-11	ELECT	10uF 20% 16V	CN006	1-506-471-11	CONNECTOR 6P, MALE	
C750	1-126-157-11	ELECT	10uF 20% 16V				
C752	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	CN007	1-506-474-11	CONNECTOR 9P, MALE	
				CN008	1-506-471-11	CONNECTOR 6P, MALE	
C753	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	CN101	* 1-580-900-00	PIN, CONNECTOR 12P	
C754	1-124-589-11	ELECT	47uF 20% 16V	CN102	1-506-477-11	CONNECTOR 12P, MALE	
C755	1-163-095-00	CERAMIC CHIP	12PF 5% 50V	CN103	1-506-468-11	CONNECTOR 3P, MALE	
C756	1-126-157-11	ELECT	10uF 20% 16V				
C757	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	CN104	1-506-472-11	CONNECTOR 7P, MALE	
				CN901	1-506-470-11	CONNECTOR 5P, MALE	
C758	1-124-584-00	ELECT	100uF 20% 10V	CN902	1-506-472-11	CONNECTOR 7P, MALE	
C801	1-126-163-11	ELECT	4.7uF 20% 50V	CN903	1-506-471-11	CONNECTOR 6P, MALE	
C802	1-126-163-11	ELECT	4.7uF 20% 50V	CN904	1-506-470-11	CONNECTOR 5P, MALE	
C803	1-124-584-00	ELECT	100uF 20% 10V				
C804	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	CN905	1-506-473-11	CONNECTOR 8P, MALE	
				CN906	1-506-472-11	CONNECTOR 7P, MALE	
C805	1-126-163-11	ELECT	4.7uF 20% 50V	CN911	1-506-467-11	CONNECTOR 2P, MALE	
C806	1-124-584-00	ELECT	100uF 20% 10V			(DIODE)	
C807	1-124-584-00	ELECT	100uF 20% 10V				
C808	1-126-163-11	ELECT	4.7uF 20% 50V	D001	8-719-104-34	DIODE 1S2836	
C809	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D002	8-719-104-34	DIODE 1S2836	
				D003	8-719-104-34	DIODE 1S2836	
C810	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D004	8-719-104-34	DIODE 1S2836	
C811	1-124-584-00	ELECT	100uF 20% 10V	D010	8-719-800-76	DIODE 1SS226	
C812	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V				
C813	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D051	8-719-104-34	DIODE 1S2836	
C814	1-124-584-00	ELECT	100uF 20% 10V	D052	8-719-104-34	DIODE 1S2836	
				D053	8-719-104-34	DIODE 1S2836	
C815	1-124-584-00	ELECT	100uF 20% 10V	D054	8-719-104-34	DIODE 1S2836	
C816	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V	D060	8-719-800-76	DIODE 1SS226	
C817	1-124-584-00	ELECT	100uF 20% 10V				
C901	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	D165	8-719-400-18	DIODE MA152WK	
C902	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	D166	8-719-400-18	DIODE MA152WK	
				D167	8-719-800-76	DIODE 1SS226	
C903	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V	D168	8-719-800-76	DIODE 1SS226	
C904	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V	D169	8-719-800-76	DIODE 1SS226	
C905	1-124-465-00	ELECT	0.47uF 20% 50V				
C906	1-126-162-11	ELECT	3.3uF 20% 50V	D170	8-719-800-76	DIODE 1SS226	
C907	1-163-125-00	CERAMIC CHIP	220PF 5% 50V	D171	8-719-104-34	DIODE 1S2836	
				D201	8-719-800-76	DIODE 1SS226	
C908	1-126-154-11	ELECT	47uF 20% 6.3V				
C909	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V				

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D901	8-719-400-18	DIODE MA152WK		IC005	8-759-932-64	IC BU4052BF	
D902	8-719-400-18	DIODE MA152WK		IC006	8-759-981-92	IC RC4558M	
D903	8-719-104-34	DIODE 1S2836		IC051	8-759-981-92	IC RC4558M	
D904	8-719-400-18	DIODE MA152WK		IC054	8-759-981-92	IC RC4558M	
		(DELAY LINE)		IC055	8-759-932-64	IC BU4052BF	
DL201	1-415-342-00	DELAY LINE, 1H		IC056	8-759-981-92	IC RC4558M	
DL202	1-415-342-00	DELAY LINE, 1H		IC165	8-759-200-67	IC TC4001BF	
		(FUSE)		IC201	8-759-030-55	IC MC1496MR	
F101	△ 1-532-777-21	FUSE, MICRO (SECONDARY) (1.25A 125V)		IC202	8-759-030-55	IC MC1496MR	
F102	△ 1-532-775-11	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC331	8-759-710-62	IC NJM2246M	
F103	△ 1-532-773-21	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC332	8-759-710-62	IC NJM2246M	
F104	△ 1-532-776-21	FUSE, MICRO (SECONDARY) (1A 125V)		IC333	8-759-710-09	IC NJM2233AM	
F105	△ 1-532-776-21	FUSE, MICRO (SECONDARY) (1A 125V)		IC401	8-759-711-71	IC NJM2234M	
F106	△ 1-532-773-21	FUSE, MICRO (SECONDARY) (0.5A 125V)		IC402	8-759-711-71	IC NJM2234M	
F107	△ 1-532-775-11	FUSE, MICRO (SECONDARY) (0.8A 125V)		IC601	8-759-200-60	IC TA7060AP	
F108	△ 1-532-773-21	FUSE, MICRO (SECONDARY) (0.5A 125V)		IC602	8-759-200-60	IC TA7060AP	
F109	△ 1-532-773-21	FUSE, MICRO (SECONDARY) (0.5A 125V)		IC603	8-759-400-06	IC AN608P	
		(HOURS METER)		IC701	8-759-200-60	IC TA7060AP	
FC901	1-548-119-21	HOURS METER		IC702	8-759-402-33	IC AN607P	
		(FILTER)		IC703	8-752-201-30	IC CX22013	
FL331	1-236-564-11	FILTER, LOW PASS		IC704	8-759-969-13	IC SN16913P	
FL332	1-235-779-11	LFP		IC705	8-759-101-12	IC WPC311G2	
FL333	1-236-563-11	FILTER, BAND PASS		IC801	8-752-009-51	IC CX20095A	
FL401	1-415-647-11	DELAY LINE, LC 250NS		IC802	8-752-009-51	IC CX20095A	
FL501	1-415-637-11	DELAY LINE, LC 150NS		IC901	8-759-009-10	IC MC14069UBF	
FL502	1-415-637-11	DELAY LINE, LC 150NS		IC902	8-759-009-10	IC MC14069UBF	
FL503	1-415-637-11	DELAY LINE, LC 150NS		IC903	8-759-100-93	IC WPC393G2	
FL701	1-415-551-11	DELAY LINE 140NS				(COIL)	
FL702	1-415-551-11	DELAY LINE 140NS		L201	1-408-979-21	INDUCTOR 56uH	
FL703	1-415-551-11	DELAY LINE 140NS		L202	1-408-972-21	INDUCTOR 15uH	
FL704	1-415-551-11	DELAY LINE 140NS		L203	1-408-979-21	INDUCTOR 56uH	
FL705	1-235-617-11	FILTER, LOW-PASS 1MHz		L204	1-408-973-21	INDUCTOR 18uH	
		(IC)		L205	1-408-974-21	INDUCTOR 22uH	
IC001	8-759-981-92	IC RC4558M		L206	1-408-976-21	INDUCTOR 33uH	
IC003	8-759-981-92	IC RC4558M		L207	1-408-972-21	INDUCTOR 15uH	
IC004	8-759-981-92	IC RC4558M		L208	1-408-979-21	INDUCTOR 56uH	
				L209	1-408-980-21	INDUCTOR 68uH	
				L210	1-408-979-21	INDUCTOR 56uH	
				L211	1-408-984-21	INDUCTOR 150uH	
				L212	1-408-972-21	INDUCTOR 15uH	
				L213	1-408-973-21	INDUCTOR 18uH	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C254	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C370	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C255	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C371	1-126-154-11	ELECT 47uF	20% 6.3V
C256	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C372	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C257	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C373	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C258	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C401	1-163-099-00	CERAMIC CHIP 18PF	5% 50V
C259	1-126-154-11	ELECT 47uF	20% 6.3V	C402	1-126-154-11	ELECT 47uF	20% 6.3V
C260	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C404	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C261	1-126-154-11	ELECT 47uF	20% 6.3V	C406	1-126-154-11	ELECT 47uF	20% 6.3V
C263	1-126-154-11	ELECT 47uF	20% 6.3V	C407	1-124-229-00	ELECT 33uF	20% 10V
C264	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C408	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C265	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C409	1-126-154-11	ELECT 47uF	20% 6.3V
C330	1-126-162-11	ELECT 3.3uF	20% 50V	C410	1-124-229-00	ELECT 33uF	20% 10V
C331	1-126-157-11	ELECT 10uF	20% 16V	C411	1-126-154-11	ELECT 47uF	20% 6.3V
C332	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C412	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C333	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C413	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C334	1-124-584-00	ELECT 100uF	20% 10V	C414	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C335	1-124-584-00	ELECT 100uF	20% 10V	C415	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C336	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C416	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C337	1-124-584-00	ELECT 100uF	20% 10V	C418	1-126-157-11	ELECT 10uF	20% 16V
C339	1-163-104-00	CERAMIC CHIP 30PF	5% 50V	C419	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C340	1-126-153-11	ELECT 22uF	20% 6.3V	C421	1-126-157-11	ELECT 10uF	20% 16V
C344	1-126-154-11	ELECT 47uF	20% 6.3V	C422	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C345	1-126-157-11	ELECT 10uF	20% 16V	C423	1-126-154-11	ELECT 47uF	20% 6.3V
C346	1-126-153-11	ELECT 22uF	20% 6.3V	C424	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C350	1-126-154-11	ELECT 47uF	20% 6.3V	C425	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C351	1-126-157-11	ELECT 10uF	20% 16V	C426	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C352	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C427	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C353	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C428	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C354	1-126-154-11	ELECT 47uF	20% 6.3V	C429	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C355	1-126-153-11	ELECT 22uF	20% 6.3V	C501	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C356	1-126-157-11	ELECT 10uF	20% 16V	C502	1-124-589-11	ELECT 47uF	20% 16V
C357	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C503	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C358	1-126-154-11	ELECT 47uF	20% 6.3V	C504	1-124-584-00	ELECT 100uF	20% 10V
C359	1-126-157-11	ELECT 10uF	20% 16V	C505	1-163-091-00	CERAMIC CHIP 8PF	50V
C360	1-126-157-11	ELECT 10uF	20% 16V	C506	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C361	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C507	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C362	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C508	1-163-109-00	CERAMIC CHIP 47PF	5% 50V
C363	1-126-154-11	ELECT 47uF	20% 6.3V	C509	1-124-589-11	ELECT 47uF	20% 16V
C364	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C510	1-163-091-00	CERAMIC CHIP 8PF	50V
C365	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C511	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C369	1-126-157-11	ELECT 10uF	20% 16V	C512	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
				C513	1-163-109-00	CERAMIC CHIP 47PF	5% 50V

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description		Remark
C514	1-124-589-11	ELECT	47uF	20% 16V	C632	1-163-009-11	CERAMIC CHIP	0.001uF	10% 50V
C515	1-163-093-00	CERAMIC CHIP	10PF	5% 50V	C633	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C516	1-126-157-11	ELECT	10uF	20% 16V	C634	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C517	1-124-584-00	ELECT	100uF	20% 10V	C701	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C518	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C702	1-124-589-11	ELECT	47uF	20% 16V
C519	1-163-091-00	CERAMIC CHIP	8PF	50V	C703	1-164-633-11	CERAMIC CHIP	0.1uF	10% 25V
C520	1-163-101-00	CERAMIC CHIP	22PF	5% 50V	C704	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C521	1-163-101-00	CERAMIC CHIP	22PF	5% 50V	C705	1-124-589-11	ELECT	47uF	20% 16V
C522	1-163-109-00	CERAMIC CHIP	47PF	5% 50V	C708	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C523	1-124-589-11	ELECT	47uF	20% 16V	C709	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C524	1-124-589-11	ELECT	47uF	20% 16V	C710	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C525	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C711	1-164-232-11	CERAMIC CHIP	0.01uF	50V
C526	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C712	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C527	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C713	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C601	1-124-589-11	ELECT	47uF	20% 16V	C714	1-124-234-00	ELECT	22uF	20% 16V
C602	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C715	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C603	1-124-589-11	ELECT	47uF	20% 16V	C716	1-126-157-11	ELECT	10uF	20% 16V
C604	1-163-103-00	CERAMIC CHIP	27PF	5% 50V	C718	1-163-093-00	CERAMIC CHIP	10PF	5% 50V
C605	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C719	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C606	1-126-157-11	ELECT	10uF	20% 16V	C720	1-124-589-11	ELECT	47uF	20% 16V
C607	1-126-157-11	ELECT	10uF	20% 16V	C721	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C608	1-126-157-11	ELECT	10uF	20% 16V	C722	1-124-589-11	ELECT	47uF	20% 16V
C609	1-124-584-00	ELECT	100uF	20% 10V	C723	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C610	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C724	1-163-088-00	CERAMIC CHIP	5PF	50V
C611	1-163-105-00	CERAMIC CHIP	33PF	5% 50V	C725	1-163-101-00	CERAMIC CHIP	22PF	5% 50V
C612	1-124-589-11	ELECT	47uF	20% 16V	C726	1-124-584-00	ELECT	100uF	20% 10V
C613	1-163-093-00	CERAMIC CHIP	10PF	5% 50V	C727	1-163-101-00	CERAMIC CHIP	22PF	5% 50V
C614	1-126-157-11	ELECT	10uF	20% 16V	C728	1-124-472-11	ELECT	470uF	20% 10V
C615	1-124-589-11	ELECT	47uF	20% 16V	C729	1-163-093-00	CERAMIC CHIP	10PF	5% 50V
C616	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C730	1-126-157-11	ELECT	10uF	20% 16V
C617	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C731	1-124-589-11	ELECT	47uF	20% 16V
C618	1-126-157-11	ELECT	10uF	20% 16V	C732	1-163-093-00	CERAMIC CHIP	10PF	5% 50V
C619	1-126-157-11	ELECT	10uF	20% 16V	C733	1-126-157-11	ELECT	10uF	20% 16V
C620	1-126-157-11	ELECT	10uF	20% 16V	C734	1-124-589-11	ELECT	47uF	20% 16V
C621	1-126-157-11	ELECT	10uF	20% 16V	C735	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C622	1-124-234-00	ELECT	22uF	20% 16V	C736	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C623	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C737	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C624	1-126-157-11	ELECT	10uF	20% 16V	C738	1-163-097-00	CERAMIC CHIP	15PF	5% 50V
C627	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V	C739	1-126-157-11	ELECT	10uF	20% 16V
C628	1-126-157-11	ELECT	10uF	20% 16V	C740	1-163-809-11	CERAMIC CHIP	0.047uF	10% 25V
C629	1-126-157-11	ELECT	10uF	20% 16V	C741	1-124-234-00	ELECT	22uF	20% 16V
C631	1-126-157-11	ELECT	10uF	20% 16V					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C014	1-124-234-00	ELECT	22uF 20% 16V	C210	1-163-107-00	CERAMIC CHIP 39PF	5% 50V
C015	1-124-234-00	ELECT	22uF 20% 16V	C211	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C016	1-124-234-00	ELECT	22uF 20% 16V	C212	1-126-153-11	ELECT 22uF	20% 6.3V
C017	1-124-584-00	ELECT	100uF 20% 10V	C213	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C018	1-124-234-00	ELECT	22uF 20% 16V	C214	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C021	1-124-584-00	ELECT	100uF 20% 10V	C215	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
C022	1-124-234-00	ELECT	22uF 20% 16V	C216	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
C023	1-126-162-11	ELECT	3.3uF 20% 50V	C217	1-126-154-11	ELECT 47uF	20% 6.3V
C051	1-124-234-00	ELECT	22uF 20% 16V	C219	1-126-154-11	ELECT 47uF	20% 6.3V
C052	1-163-125-00	CERAMIC CHIP	220PF 5% 50V	C220	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C053	1-124-234-00	ELECT	22uF 20% 16V	C221	1-126-153-11	ELECT 22uF	20% 6.3V
C054	1-124-234-00	ELECT	22uF 20% 16V	C222	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C057	1-124-234-00	ELECT	22uF 20% 16V	C223	1-126-153-11	ELECT 22uF	20% 6.3V
C059	1-124-584-00	ELECT	100uF 20% 10V	C224	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C060	1-124-584-00	ELECT	100uF 20% 10V	C225	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C061	1-124-584-00	ELECT	100uF 20% 10V	C226	1-126-153-11	ELECT 22uF	20% 6.3V
C062	1-124-584-00	ELECT	100uF 20% 10V	C227	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C063	1-124-584-00	ELECT	100uF 20% 10V	C228	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C064	1-124-234-00	ELECT	22uF 20% 16V	C229	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C065	1-124-234-00	ELECT	22uF 20% 16V	C230	1-164-633-11	CERAMIC CHIP 0.1uF	10% 25V
C066	1-124-234-00	ELECT	22uF 20% 16V	C231	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C067	1-124-234-00	ELECT	22uF 20% 16V	C232	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C081	1-124-584-00	ELECT	100uF 20% 10V	C233	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C082	1-124-234-00	ELECT	22uF 20% 16V	C234	1-126-153-11	ELECT 22uF	20% 6.3V
C083	1-126-162-11	ELECT	3.3uF 20% 50V	C235	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C165	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C236	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C166	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C237	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C167	1-126-162-11	ELECT	3.3uF 20% 50V	C238	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C168	1-124-234-00	ELECT	22uF 20% 16V	C240	1-126-163-11	ELECT 4.7uF	20% 50V
C170	1-124-472-11	ELECT	470uF 20% 10V	C241	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C171	1-124-584-00	ELECT	100uF 20% 10V	C242	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C172	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V	C243	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C173	1-164-161-11	CERAMIC CHIP	0.0022uF 10% 100V	C244	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C201	1-126-154-11	ELECT	47uF 20% 6.3V	C245	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C202	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V	C246	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C203	1-126-157-11	ELECT	10uF 20% 16V	C247	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C204	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C248	1-126-154-11	ELECT 47uF	20% 6.3V
C205	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C249	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C206	1-124-584-00	ELECT	100uF 20% 10V	C250	1-126-163-11	ELECT 4.7uF	20% 50V
C207	1-126-153-11	ELECT	22uF 20% 6.3V	C251	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
C208	1-126-369-11	ELECT	220uF 20% 6.3V	C252	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
C209	1-163-106-00	CERAMIC CHIP	36PF 5% 50V	C253	1-164-232-11	CERAMIC CHIP 0.01uF	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R484	1-216-075-00	METAL CHIP	12K 5% 1/10W	R540	1-216-295-00	METAL CHIP	0 5% 1/10W
R485	1-216-295-00	METAL CHIP	0 5% 1/10W	R601	1-216-295-00	METAL CHIP	0 5% 1/10W
R488	1-216-295-00	METAL CHIP	0 5% 1/10W	R602	1-216-073-00	METAL CHIP	10K 5% 1/10W
R501	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R603	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R502	1-216-155-11	METAL GLAZE	3.9K 1% 1/10W	R604	1-216-073-00	METAL CHIP	10K 5% 1/10W
R503	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R605	1-216-723-11	METAL GLAZE	5.6K 1% 1/10W
R504	1-216-596-11	METAL GLAZE	2.7K 1% 1/10W	R606	1-216-334-11	METAL GLAZE	22K 1% 1/10W
R505	1-216-150-11	METAL GLAZE	1.2K 1% 1/10W	R607	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W
R506	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R609	1-216-103-00	METAL CHIP	180K 5% 1/10W
R507	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R610	1-216-295-00	METAL CHIP	0 5% 1/10W
R508	1-216-085-00	METAL CHIP	33K 5% 1/10W	R612	1-216-073-00	METAL CHIP	10K 5% 1/10W
R509	1-216-077-00	METAL CHIP	15K 5% 1/10W	R613	1-218-152-11	METAL GLAZE	1.5K 1% 1/10W
R510	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W	R614	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W
R511	1-216-647-11	METAL CHIP	680 0.5% 1/10W	R615	1-216-542-11	METAL CHIP	12K 1% 1/10W
R512	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W	R616	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R513	1-218-144-11	METAL GLAZE	560 1% 1/10W	R617	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R514	1-216-542-11	METAL CHIP	12K 1% 1/10W	R619	1-216-049-00	METAL CHIP	1K 5% 1/10W
R515	1-216-097-00	METAL CHIP	100K 5% 1/10W	R620	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R516	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W	R621	1-216-081-00	METAL CHIP	22K 5% 1/10W
R517	1-218-140-11	METAL GLAZE	390 1% 1/10W	R622	1-216-097-00	METAL CHIP	100K 5% 1/10W
R519	1-216-295-00	METAL CHIP	0 5% 1/10W	R623	1-216-295-00	METAL CHIP	0 5% 1/10W
R520	1-216-035-00	METAL CHIP	270 5% 1/10W	R624	1-216-073-00	METAL CHIP	10K 5% 1/10W
R521	1-216-073-00	METAL CHIP	10K 5% 1/10W	R625	1-216-063-00	METAL CHIP	3.9K 5% 1/10W
R522	1-216-748-11	METAL CHIP	39K 5% 1/10W	R626	1-216-295-00	METAL CHIP	0 5% 1/10W
R523	1-216-121-00	METAL CHIP	1M 5% 1/10W	R627	1-216-081-00	METAL CHIP	22K 5% 1/10W
R524	1-216-117-00	METAL CHIP	680K 5% 1/10W	R628	1-216-081-00	METAL CHIP	22K 5% 1/10W
R525	1-216-075-00	METAL CHIP	12K 5% 1/10W	R629	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W
R526	1-216-081-00	METAL CHIP	22K 5% 1/10W	R630	1-218-155-11	METAL GLAZE	3.9K 1% 1/10W
R527	1-216-075-00	METAL CHIP	12K 5% 1/10W	R631	1-216-596-11	METAL GLAZE	2.7K 1% 1/10W
R528	1-216-083-00	METAL CHIP	27K 5% 1/10W	R632	1-218-144-11	METAL GLAZE	560 1% 1/10W
R529	1-216-081-00	METAL CHIP	22K 5% 1/10W	R633	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W
R530	1-216-631-11	METAL CHIP	150 0.5% 1/10W	R634	1-216-085-00	METAL CHIP	33K 5% 1/10W
R531	1-216-629-11	METAL CHIP	120 0.5% 1/10W	R635	1-216-085-00	METAL CHIP	33K 5% 1/10W
R532	1-216-617-11	METAL CHIP	39 1% 1/10W	R636	1-216-049-00	METAL CHIP	1K 5% 1/10W
R533	1-216-083-00	METAL CHIP	27K 5% 1/10W	R637	1-216-081-00	METAL CHIP	22K 5% 1/10W
R534	1-216-049-00	METAL CHIP	1K 5% 1/10W	R638	1-216-085-00	METAL CHIP	33K 5% 1/10W
R535	1-216-641-11	METAL CHIP	390 0.5% 1/10W	R639	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R536	1-216-633-11	METAL CHIP	180 0.5% 1/10W	R640	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R537	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R641	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R538	1-216-083-00	METAL CHIP	27K 5% 1/10W	R642	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R539	1-216-081-00	METAL CHIP	22K 5% 1/10W	R644	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R645	1-216-073-00	METAL CHIP	10K 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R646	1-216-097-00	METAL CHIP	100K 5% 1/10W	R724	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R647	1-216-085-00	METAL CHIP	33K 5% 1/10W	R725	1-216-089-00	METAL CHIP	47K 5% 1/10W
R648	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R726	1-216-025-00	METAL CHIP	100 5% 1/10W
R649	1-216-079-00	METAL CHIP	18K 5% 1/10W	R727	1-216-041-00	METAL CHIP	470 5% 1/10W
R650	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R728	1-216-039-00	METAL CHIP	390 5% 1/10W
R651	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R729	1-216-295-00	METAL CHIP	0 5% 1/10W
R652	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R730	1-216-049-00	METAL CHIP	1K 5% 1/10W
R653	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R731	1-216-047-00	METAL CHIP	820 5% 1/10W
R654	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R732	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
R655	1-216-049-00	METAL CHIP	1K 5% 1/10W	R733	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R656	1-216-049-00	METAL CHIP	1K 5% 1/10W	R734	1-216-049-00	METAL CHIP	1K 5% 1/10W
R657	1-216-085-00	METAL CHIP	33K 5% 1/10W	R735	1-216-295-00	METAL CHIP	0 5% 1/10W
R658	1-216-039-00	METAL CHIP	390 5% 1/10W	R736	1-216-049-00	METAL CHIP	1K 5% 1/10W
R659	1-216-121-00	METAL CHIP	1M 5% 1/10W	R801	1-216-073-00	METAL CHIP	10K 5% 1/10W
R660	1-216-115-00	METAL CHIP	560K 5% 1/10W	R802	1-216-105-00	METAL CHIP	220K 5% 1/10W
R661	1-216-081-00	METAL CHIP	22K 5% 1/10W	R803	1-216-081-00	METAL CHIP	22K 5% 1/10W
R662	1-216-542-11	METAL CHIP	12K 1% 1/10W	R804	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R663	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W	R805	1-216-081-00	METAL CHIP	22K 5% 1/10W
R664	1-218-152-11	METAL GLAZE	1.5K 1% 1/10W	R806	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R701	1-216-073-00	METAL CHIP	10K 5% 1/10W	R807	1-216-081-00	METAL CHIP	22K 5% 1/10W
R702	1-216-105-00	METAL CHIP	220K 5% 1/10W	R808	1-216-073-00	METAL CHIP	10K 5% 1/10W
R703	1-216-129-00	METAL CHIP	2.2M 5% 1/10W	R809	1-216-105-00	METAL CHIP	220K 5% 1/10W
R704	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R810	1-216-089-00	METAL CHIP	47K 5% 1/10W
R705	1-216-129-00	METAL CHIP	2.2M 5% 1/10W	R811	1-216-629-11	METAL CHIP	120 0.5% 1/10W
R706	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R812	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R707	1-216-113-00	METAL CHIP	470K 5% 1/10W	R813	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W
R708	1-216-105-00	METAL CHIP	220K 5% 1/10W	R814	1-216-324-11	METAL GLAZE	10K 1% 1/10W
R709	1-216-089-00	METAL CHIP	47K 5% 1/10W	R815	1-216-039-00	METAL CHIP	390 5% 1/10W
R710	1-216-105-00	METAL CHIP	220K 5% 1/10W	R816	1-216-029-00	METAL CHIP	150 5% 1/10W
R711	1-216-629-11	METAL CHIP	120 0.5% 1/10W	R817	1-216-039-00	METAL CHIP	390 5% 1/10W
R712	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R818	1-216-042-00	METAL CHIP	510 5% 1/10W
R713	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W	R819	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R714	1-216-324-11	METAL GLAZE	10K 1% 1/10W	R820	1-216-079-00	METAL CHIP	18K 5% 1/10W
R715	1-216-039-00	METAL CHIP	390 5% 1/10W	R821	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
R716	1-216-033-00	METAL CHIP	220 5% 1/10W	R822	1-216-119-00	METAL CHIP	820K 5% 1/10W
R717	1-216-039-00	METAL CHIP	390 5% 1/10W	R823	1-216-121-00	METAL CHIP	1M 5% 1/10W
R718	1-216-039-00	METAL CHIP	390 5% 1/10W	R824	1-216-073-00	METAL CHIP	10K 5% 1/10W
R719	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R825	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R720	1-216-079-00	METAL CHIP	18K 5% 1/10W	R827	1-216-025-00	METAL CHIP	100 5% 1/10W
R721	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	R828	1-216-041-00	METAL CHIP	470 5% 1/10W
R722	1-216-121-00	METAL CHIP	1M 5% 1/10W	R829	1-216-025-00	METAL CHIP	100 5% 1/10W
R723	1-216-073-00	METAL CHIP	10K 5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R240	1-216-089-00	METAL CHIP	47K 5% 1/10W	R334	1-216-073-00	METAL CHIP	10K 5% 1/10W
R241	1-216-041-00	METAL CHIP	470 5% 1/10W	R335	1-216-073-00	METAL CHIP	10K 5% 1/10W
R242	1-216-295-00	METAL CHIP	0 5% 1/10W	R336	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R243	1-216-041-00	METAL CHIP	470 5% 1/10W	R337	1-216-073-00	METAL CHIP	10K 5% 1/10W
R244	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R338	1-216-073-00	METAL CHIP	10K 5% 1/10W
R245	1-216-043-00	METAL CHIP	560 5% 1/10W	R339	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R247	1-216-041-00	METAL CHIP	470 5% 1/10W	R340	1-218-150-11	METAL GLAZE	1.2K 1% 1/10W
R251	1-216-043-00	METAL CHIP	560 5% 1/10W	R341	1-218-140-11	METAL GLAZE	390 1% 1/10W
R252	1-216-033-00	METAL CHIP	220 5% 1/10W	R342	1-216-049-00	METAL CHIP	1K 5% 1/10W
R253	1-216-041-00	METAL CHIP	470 5% 1/10W	R343	1-216-049-00	METAL CHIP	1K 5% 1/10W
R297	1-216-081-00	METAL CHIP	22K 5% 1/10W	R344	1-216-099-00	METAL CHIP	120K 5% 1/10W
R298	1-216-085-00	METAL CHIP	33K 5% 1/10W	R345	1-216-113-00	METAL CHIP	470K 5% 1/10W
R299	1-216-602-11	METAL GLAZE	6.8K 1% 1/10W	R346	1-216-075-00	METAL CHIP	12K 5% 1/10W
R301	1-216-049-00	METAL CHIP	1K 5% 1/10W	R347	1-216-081-00	METAL CHIP	22K 5% 1/10W
R302	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R348	1-216-077-00	METAL CHIP	15K 5% 1/10W
R303	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W	R349	1-216-085-00	METAL CHIP	33K 5% 1/10W
R304	1-218-156-11	METAL GLAZE	8.2K 1% 1/10W	R350	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
R305	1-216-542-11	METAL CHIP	12K 1% 1/10W	R351	1-216-077-00	METAL CHIP	15K 5% 1/10W
R306	1-216-049-00	METAL CHIP	1K 5% 1/10W	R353	1-216-097-00	METAL CHIP	100K 5% 1/10W
R307	1-216-049-00	METAL CHIP	1K 5% 1/10W	R354	1-216-109-00	METAL CHIP	330K 5% 1/10W
R308	1-216-295-00	METAL CHIP	0 5% 1/10W	R355	1-216-049-00	METAL CHIP	1K 5% 1/10W
R309	1-216-295-00	METAL CHIP	0 5% 1/10W	R356	1-216-081-00	METAL CHIP	22K 5% 1/10W
R310	1-216-033-00	METAL CHIP	220 5% 1/10W	R357	1-216-081-00	METAL CHIP	22K 5% 1/10W
R311	1-216-033-00	METAL CHIP	220 5% 1/10W	R358	1-216-295-00	METAL CHIP	0 5% 1/10W
R313	1-216-034-00	METAL CHIP	240 5% 1/10W	R359	1-216-049-00	METAL CHIP	1K 5% 1/10W
R314	1-216-043-00	METAL CHIP	560 5% 1/10W	R360	1-216-097-00	METAL CHIP	100K 5% 1/10W
R315	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R362	1-216-093-00	METAL CHIP	68K 5% 1/10W
R316	1-216-075-00	METAL CHIP	12K 5% 1/10W	R363	1-216-073-00	METAL CHIP	10K 5% 1/10W
R317	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R364	1-216-097-00	METAL CHIP	100K 5% 1/10W
R318	1-216-033-00	METAL CHIP	220 5% 1/10W	R365	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W
R320	1-216-033-00	METAL CHIP	220 5% 1/10W	R366	1-216-089-00	METAL CHIP	47K 5% 1/10W
R321	1-216-032-00	METAL CHIP	200 5% 1/10W	R367	1-216-091-00	METAL CHIP	56K 5% 1/10W
R323	1-218-142-11	METAL GLAZE	470 1% 1/10W	R368	1-216-081-00	METAL CHIP	22K 5% 1/10W
R324	1-216-073-00	METAL CHIP	10K 5% 1/10W	R369	1-216-077-00	METAL CHIP	15K 5% 1/10W
R325	1-216-073-00	METAL CHIP	10K 5% 1/10W	R370	1-216-081-00	METAL CHIP	22K 5% 1/10W
R326	1-216-033-00	METAL CHIP	220 5% 1/10W	R371	1-216-295-00	METAL CHIP	0 5% 1/10W
R327	1-216-033-00	METAL CHIP	220 5% 1/10W	R373	1-216-101-00	METAL CHIP	150K 5% 1/10W
R329	1-218-150-11	METAL GLAZE	1.2K 1% 1/10W	R374	1-216-049-00	METAL CHIP	1K 5% 1/10W
R330	1-216-045-00	METAL CHIP	680 5% 1/10W	R376	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R331	1-216-043-00	METAL CHIP	560 5% 1/10W	R379	1-216-043-00	METAL CHIP	560 5% 1/10W
R332	1-218-144-11	METAL GLAZE	560 1% 1/10W	R380	1-216-033-00	METAL CHIP	220 5% 1/10W
R333	1-216-623-11	METAL CHIP	68 0.5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R381	1-216-295-00	METAL CHIP	0 5% 1/10W	R441	1-216-064-00	METAL CHIP	4.3K 5% 1/10W
R382	1-216-295-00	METAL CHIP	0 5% 1/10W	R442	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R383	1-216-295-00	METAL CHIP	0 5% 1/10W	R443	1-216-075-00	METAL CHIP	12K 5% 1/10W
R401	1-216-737-11	METAL GLAZE	1K 1% 1/10W				
R402	1-216-334-11	METAL GLAZE	22K 1% 1/10W	R444	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
				R445	1-216-295-00	METAL CHIP	0 5% 1/10W
R403	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W	R446	1-218-155-11	METAL GLAZE	3.9K 1% 1/10W
R404	1-216-654-11	METAL CHIP	1.3K 0.5% 1/10W	R447	1-216-333-11	METAL CHIP	15K 1% 1/10W
R405	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R448	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R406	1-216-033-00	METAL CHIP	220 5% 1/10W				
R407	1-216-033-00	METAL CHIP	220 5% 1/10W	R449	1-216-077-00	METAL CHIP	15K 5% 1/10W
				R450	1-216-081-00	METAL CHIP	22K 5% 1/10W
R408	1-216-295-00	METAL CHIP	0 5% 1/10W	R451	1-216-041-00	METAL CHIP	470 5% 1/10W
R409	1-216-653-11	METAL CHIP	1.2K 0.5% 1/10W	R452	1-216-041-00	METAL CHIP	470 5% 1/10W
R411	1-216-037-00	METAL CHIP	330 5% 1/10W	R453	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R412	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R413	1-216-111-00	METAL CHIP	390K 5% 1/10W	R454	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
				R455	1-218-150-11	METAL GLAZE	1.2K 1% 1/10W
R414	1-216-081-00	METAL CHIP	22K 5% 1/10W	R456	1-216-083-00	METAL CHIP	27K 5% 1/10W
R415	1-216-097-00	METAL CHIP	100K 5% 1/10W	R457	1-216-081-00	METAL CHIP	22K 5% 1/10W
R416	1-216-077-00	METAL CHIP	15K 5% 1/10W	R458	1-216-047-00	METAL CHIP	820 5% 1/10W
R417	1-216-069-00	METAL CHIP	6.8K 5% 1/10W				
R418	1-216-041-00	METAL CHIP	470 5% 1/10W	R459	1-216-039-00	METAL CHIP	390 5% 1/10W
				R460	1-216-033-00	METAL CHIP	220 5% 1/10W
R419	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R462	1-216-049-00	METAL CHIP	1K 5% 1/10W
R420	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R463	1-216-073-00	METAL CHIP	10K 5% 1/10W
R421	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R464	1-216-089-00	METAL CHIP	47K 5% 1/10W
R422	1-216-051-00	METAL CHIP	1.2K 5% 1/10W				
R423	1-216-049-00	METAL CHIP	1K 5% 1/10W	R465	1-216-089-00	METAL CHIP	47K 5% 1/10W
				R466	1-218-142-11	METAL GLAZE	470 1% 1/10W
R424	1-216-059-00	METAL CHIP	2.7K 5% 1/10W	R467	1-218-140-11	METAL GLAZE	390 1% 1/10W
R425	1-216-049-00	METAL CHIP	1K 5% 1/10W	R468	1-216-089-00	METAL CHIP	47K 5% 1/10W
R426	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	R469	1-216-089-00	METAL CHIP	47K 5% 1/10W
R427	1-216-045-00	METAL CHIP	680 5% 1/10W				
R428	1-216-748-11	METAL CHIP	39K 5% 1/10W	R470	1-216-073-00	METAL CHIP	10K 5% 1/10W
				R471	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R429	1-216-081-00	METAL CHIP	22K 5% 1/10W	R472	1-216-041-00	METAL CHIP	470 5% 1/10W
R430	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	R473	1-216-049-00	METAL CHIP	1K 5% 1/10W
R431	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R474	1-216-049-00	METAL CHIP	1K 5% 1/10W
R432	1-216-081-00	METAL CHIP	22K 5% 1/10W				
R433	1-216-097-00	METAL CHIP	100K 5% 1/10W	R475	1-216-058-00	METAL GLAZE	2.4K 5% 1/10W
				R476	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R434	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R477	1-216-041-00	METAL CHIP	470 5% 1/10W
R435	1-216-101-00	METAL CHIP	150K 5% 1/10W	R478	1-216-063-00	METAL CHIP	3.9K 5% 1/10W
R436	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R479	1-216-049-00	METAL CHIP	1K 5% 1/10W
R437	1-218-132-11	METAL GLAZE	4.7K 1% 1/10W				
R438	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R480	1-216-085-00	METAL CHIP	33K 5% 1/10W
				R481	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R439	1-216-064-00	METAL CHIP	4.3K 5% 1/10W	R482	1-216-073-00	METAL CHIP	10K 5% 1/10W
R440	1-216-870-11	METAL CHIP	180K 1% 1/10W	R483	1-216-082-00	METAL GLAZE	24K 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
0426	8-729-100-66	TRANSISTOR 2SC1623		0904	8-729-100-66	TRANSISTOR 2SC1623	
0427	8-729-320-17	TRANSISTOR 2SA1122CD				(RESISTOR)	
0428	8-729-320-17	TRANSISTOR 2SA1122CD					
0429	8-729-901-01	TRANSISTOR DTC144EK		R101	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0430	8-729-901-01	TRANSISTOR DTC144EK		R102	1-216-029-00	METAL CHIP 150 5% 1/10W	
0431	8-729-320-17	TRANSISTOR 2SA1122CD		R103	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0501	8-729-901-06	TRANSISTOR DTA144EK		R104	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0502	8-729-901-01	TRANSISTOR DTC144EK		R105	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
0503	8-729-901-00	TRANSISTOR DTC124EK		R106	1-216-041-00	METAL CHIP 470 5% 1/10W	
0601	8-729-901-01	TRANSISTOR DTC144EK		R107	1-216-035-00	METAL CHIP 270 5% 1/10W	
0603	8-729-901-01	TRANSISTOR DTC144EK		R108	1-216-043-00	METAL CHIP 560 5% 1/10W	
0604	8-729-100-66	TRANSISTOR 2SC1623		R109	1-216-081-00	METAL CHIP 22K 5% 1/10W	
0605	8-729-100-66	TRANSISTOR 2SC1623		R110	1-216-081-00	METAL CHIP 22K 5% 1/10W	
0606	8-729-901-01	TRANSISTOR DTC144EK		R111	1-216-045-00	METAL CHIP 680 5% 1/10W	
0607	8-729-100-66	TRANSISTOR 2SC1623		R112	1-216-041-00	METAL CHIP 470 5% 1/10W	
0608	8-729-320-17	TRANSISTOR 2SA1122CD		R113	1-216-041-00	METAL CHIP 470 5% 1/10W	
0701	8-729-901-01	TRANSISTOR DTC144EK		R115	1-216-043-00	METAL CHIP 560 5% 1/10W	
0702	8-729-216-22	TRANSISTOR 2SA1162		R116	1-216-033-00	METAL CHIP 220 5% 1/10W	
0703	8-729-216-22	TRANSISTOR 2SA1162		R117	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
0704	8-729-216-22	TRANSISTOR 2SA1162		R119	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0705	8-729-320-17	TRANSISTOR 2SA1122CD		R120	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0706	8-729-901-01	TRANSISTOR DTC144EK		R121	1-216-093-00	METAL CHIP 68K 5% 1/10W	
0707	8-729-901-01	TRANSISTOR DTC144EK		R122	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0708	8-729-216-22	TRANSISTOR 2SA1162		R124	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0709	8-729-216-22	TRANSISTOR 2SA1162		R125	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0710	8-729-320-17	TRANSISTOR 2SA1122CD		R126	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0801	8-729-901-01	TRANSISTOR DTC144EK		R127	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0802	8-729-320-17	TRANSISTOR 2SA1122CD		R128	1-216-041-00	METAL CHIP 470 5% 1/10W	
0803	8-729-216-22	TRANSISTOR 2SA1162		R130	1-216-033-00	METAL CHIP 220 5% 1/10W	
0804	8-729-216-22	TRANSISTOR 2SA1162		R131	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
0805	8-729-216-22	TRANSISTOR 2SA1162		R132	1-216-073-00	METAL CHIP 10K 5% 1/10W	
0806	8-729-320-17	TRANSISTOR 2SA1122CD		R133	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
0807	8-729-901-01	TRANSISTOR DTC144EK		R137	1-216-033-00	METAL CHIP 220 5% 1/10W	
0808	8-729-216-22	TRANSISTOR 2SA1162		R139	1-216-295-00	METAL CHIP 0 5% 1/10W	
0809	8-729-216-22	TRANSISTOR 2SA1162		R140	1-216-053-00	METAL CHIP 1.5K 5% 1/10W	
0810	8-729-320-17	TRANSISTOR 2SA1122CD		R141	1-216-075-00	METAL CHIP 12K 5% 1/10W	
0811	8-729-901-01	TRANSISTOR DTC144EK		R142	1-216-748-11	METAL CHIP 39K 5% 1/10W	
0851	8-729-100-66	TRANSISTOR 2SC1623		R143	1-216-049-00	METAL CHIP 1K 5% 1/10W	
0852	8-729-100-66	TRANSISTOR 2SC1623		R144	1-216-043-00	METAL CHIP 560 5% 1/10W	
0901	8-729-901-00	TRANSISTOR DTC124EK		R145	1-216-037-00	METAL CHIP 330 5% 1/10W	
0902	8-729-901-01	TRANSISTOR DTC144EK		R146	1-216-035-00	METAL CHIP 270 5% 1/10W	
0903	8-729-104-25	TRANSISTOR 2SB804-AV		R147	1-216-081-00	METAL CHIP 22K 5% 1/10W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R148	1-216-081-00	METAL CHIP	22K 5X 1/10W	R192	1-216-037-00	METAL CHIP	330 5X 1/10W
R149	1-216-049-00	METAL CHIP	1K 5X 1/10W	R193	1-216-057-00	METAL CHIP	2.2K 5X 1/10W
R150	1-216-047-00	METAL CHIP	820 5X 1/10W	R194	1-216-295-00	METAL CHIP	0 5X 1/10W
R151	1-216-049-00	METAL CHIP	1K 5X 1/10W	R195	1-216-041-00	METAL CHIP	470 5X 1/10W
R153	1-216-073-00	METAL CHIP	10K 5X 1/10W	R196	1-216-649-11	METAL CHIP	820 0.5X 1/10W
R154	1-216-073-00	METAL CHIP	10K 5X 1/10W	R197	1-218-142-11	METAL GLAZE	470 1K 1/10W
R155	1-216-049-00	METAL CHIP	1K 5X 1/10W	R198	1-216-089-00	METAL CHIP	47K 5X 1/10W
R156	1-216-295-00	METAL CHIP	0 5X 1/10W	R199	1-216-089-00	METAL CHIP	47K 5X 1/10W
R157	1-216-069-00	METAL CHIP	6.8K 5X 1/10W	R201	1-216-073-00	METAL CHIP	10K 5X 1/10W
R158	1-216-083-00	METAL CHIP	27K 5X 1/10W	R202	1-216-089-00	METAL CHIP	47K 5X 1/10W
R159	1-216-025-00	METAL CHIP	100 5X 1/10W	R203	1-216-073-00	METAL CHIP	10K 5X 1/10W
R160	1-216-045-00	METAL CHIP	680 5X 1/10W	R204	1-216-089-00	METAL CHIP	47K 5X 1/10W
R161	1-216-295-00	METAL CHIP	0 5X 1/10W	R205	1-216-049-00	METAL CHIP	1K 5X 1/10W
R162	1-216-045-00	METAL CHIP	680 5X 1/10W	R206	1-216-043-00	METAL CHIP	560 5X 1/10W
R163	1-216-073-00	METAL CHIP	10K 5X 1/10W	R210	1-216-053-00	METAL CHIP	1.5K 5X 1/10W
R164	1-216-073-00	METAL CHIP	10K 5X 1/10W	R211	1-216-049-00	METAL CHIP	1K 5X 1/10W
R165	1-216-069-00	METAL CHIP	6.8K 5X 1/10W	R212	1-216-071-00	METAL CHIP	8.2K 5X 1/10W
R166	1-216-061-00	METAL CHIP	3.3K 5X 1/10W	R215	1-216-049-00	METAL CHIP	1K 5X 1/10W
R167	1-216-041-00	METAL CHIP	470 5X 1/10W	R216	1-216-081-00	METAL CHIP	22K 5X 1/10W
R168	1-216-073-00	METAL CHIP	10K 5X 1/10W	R217	1-216-081-00	METAL CHIP	22K 5X 1/10W
R169	1-216-049-00	METAL CHIP	1K 5X 1/10W	R218	1-216-041-00	METAL CHIP	470 5X 1/10W
R170	1-216-097-00	METAL CHIP	100K 5X 1/10W	R219	1-216-051-00	METAL CHIP	1.2K 5X 1/10W
R171	1-216-748-11	METAL CHIP	39K 5X 1/10W	R220	1-216-041-00	METAL CHIP	470 5X 1/10W
R173	1-216-097-00	METAL CHIP	100K 5X 1/10W	R221	1-216-041-00	METAL CHIP	470 5X 1/10W
R174	1-216-748-11	METAL CHIP	39K 5X 1/10W	R222	1-216-295-00	METAL CHIP	0 5X 1/10W
R175	1-216-097-00	METAL CHIP	100K 5X 1/10W	R223	1-216-041-00	METAL CHIP	470 5X 1/10W
R176	1-216-073-00	METAL CHIP	10K 5X 1/10W	R224	1-216-041-00	METAL CHIP	470 5X 1/10W
R177	1-216-081-00	METAL CHIP	22K 5X 1/10W	R225	1-216-065-00	METAL CHIP	4.7K 5X 1/10W
R178	1-216-077-00	METAL CHIP	15K 5X 1/10W	R226	1-216-081-00	METAL CHIP	22K 5X 1/10W
R179	1-216-075-00	METAL CHIP	12K 5X 1/10W	R227	1-216-083-00	METAL CHIP	27K 5X 1/10W
R180	1-216-041-00	METAL CHIP	470 5X 1/10W	R228	1-216-053-00	METAL CHIP	1.5K 5X 1/10W
R181	1-216-085-00	METAL CHIP	33K 5X 1/10W	R229	1-216-049-00	METAL CHIP	1K 5X 1/10W
R182	1-216-073-00	METAL CHIP	10K 5X 1/10W	R230	1-216-047-00	METAL CHIP	820 5X 1/10W
R183	1-216-067-00	METAL CHIP	5.6K 5X 1/10W	R231	1-216-069-00	METAL CHIP	6.8K 5X 1/10W
R184	1-216-055-00	METAL CHIP	1.8K 5X 1/10W	R232	1-216-737-11	METAL GLAZE	1K 1K 1/10W
R185	1-216-073-00	METAL CHIP	10K 5X 1/10W	R233	1-216-602-11	METAL GLAZE	6.8K 1K 1/10W
R186	1-216-065-00	METAL CHIP	4.7K 5X 1/10W	R234	1-216-033-00	METAL CHIP	220 5X 1/10W
R187	1-216-081-00	METAL CHIP	22K 5X 1/10W	R235	1-216-057-00	METAL CHIP	2.2K 5X 1/10W
R188	1-216-065-00	METAL CHIP	4.7K 5X 1/10W	R236	1-216-089-00	METAL CHIP	47K 5X 1/10W
R190	1-216-065-00	METAL CHIP	4.7K 5X 1/10W	R237	1-216-089-00	METAL CHIP	47K 5X 1/10W
R191	1-216-071-00	METAL CHIP	8.2K 5X 1/10W	R238	1-216-053-00	METAL CHIP	1.5K 5X 1/10W
				R239	1-216-089-00	METAL CHIP	47K 5X 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC401	8-752-031-01	IC CXA1047M		L501	1-408-984-21	INDUCTOR CHIP 150uH	
IC501	8-752-003-12	IC CX20031		L502	1-408-785-21	INDUCTOR CHIP 47uH	
IC601	8-752-202-10	IC CX22021		L503	1-408-767-21	INDUCTOR CHIP 1.5uH	
IC602	8-752-003-22	IC CX20032		L504	1-408-767-21	INDUCTOR CHIP 1.5uH	
IC603	8-759-914-56	IC CX23054		L505	1-408-779-31	INDUCTOR CHIP 15uH	
IC701	8-752-322-24	IC CXL1008M		L601	1-407-169-XX	INDUCTOR CHIP 100uH	
IC801	8-752-322-24	IC CXL1008M		L602	1-408-792-00	INDUCTOR CHIP 180uH	
IC851	8-759-710-05	IC NJM2238M		L603	1-408-783-00	INDUCTOR CHIP 33uH	
IC901	8-759-925-74	IC TC74HC04AF		L604	1-408-789-21	INDUCTOR CHIP 100uH	
IC902	8-759-925-74	IC TC74HC04AF		L605	1-408-790-00	INDUCTOR CHIP 120uH	
		(COIL)		L606	1-408-793-21	INDUCTOR CHIP 220uH	
L101	1-408-974-21	INDUCTOR CHIP 22uH		L701	1-407-169-XX	INDUCTOR CHIP 100uH	
L102	1-410-167-41	INDUCTOR CHIP 820uH		L702	1-408-787-00	INDUCTOR CHIP 68uH	
L103	1-408-792-00	INDUCTOR CHIP 180uH		L703	1-408-777-00	INDUCTOR CHIP 10uH	
L104	1-408-775-21	INDUCTOR CHIP 6.8uH		L704	1-407-169-XX	INDUCTOR CHIP 100uH	
L105	1-408-770-11	INDUCTOR CHIP 2.7uH		L705	1-408-789-21	INDUCTOR CHIP 100uH	
L106	1-408-775-21	INDUCTOR CHIP 6.8uH		L706	1-408-789-21	INDUCTOR CHIP 100uH	
L107	1-408-775-21	INDUCTOR CHIP 6.8uH		L801	1-407-169-XX	INDUCTOR CHIP 100uH	
L108	1-408-780-21	INDUCTOR CHIP 18uH		L802	1-408-787-00	INDUCTOR CHIP 68uH	
L111	1-408-797-11	INDUCTOR CHIP 470uH		L803	1-408-777-00	INDUCTOR CHIP 10uH	
L112	1-408-797-11	INDUCTOR CHIP 470uH		L804	1-407-169-XX	INDUCTOR CHIP 100uH	
L113	1-408-777-00	INDUCTOR CHIP 10uH		L805	1-408-781-00	INDUCTOR CHIP 22uH	
L114	1-408-779-31	INDUCTOR CHIP 15uH		L851	1-407-169-XX	INDUCTOR CHIP 100uH	
L115	1-408-780-21	INDUCTOR CHIP 18uH		L852	1-408-777-00	INDUCTOR CHIP 10uH	
L201	1-407-169-XX	INDUCTOR CHIP 100uH				(COIL VARIABLE)	
L202	1-408-795-21	INDUCTOR CHIP 330uH		LV501	1-459-547-11	COIL, VARIABLE 15uH	
L203	1-408-784-11	INDUCTOR CHIP 39uH				(TRANSISTOR)	
L204	1-408-782-11	INDUCTOR CHIP 27uH		Q101	8-729-102-07	TRANSISTOR 2SC2223	
L205	1-408-776-00	INDUCTOR CHIP 8.2uH		Q102	8-729-901-04	TRANSISTOR DTA114EK	
L301	1-408-790-00	INDUCTOR CHIP 120uH		Q103	8-729-102-07	TRANSISTOR 2SC2223	
L302	1-408-789-21	INDUCTOR CHIP 100uH		Q104	8-729-901-01	TRANSISTOR DTC144EK	
L303	1-408-780-21	INDUCTOR CHIP 18uH		Q105	8-729-904-07	TRANSISTOR FMG2-T-148	
L305	1-408-779-31	INDUCTOR CHIP 15uH		Q107	8-729-100-66	TRANSISTOR 2SC1623	
L306	1-408-782-11	INDUCTOR CHIP 27uH		Q110	8-729-901-01	TRANSISTOR DTC144EK	
L307	1-408-779-31	INDUCTOR CHIP 15uH		Q111	8-729-102-07	TRANSISTOR 2SC2223	
L308	1-408-783-00	INDUCTOR CHIP 33uH		Q112	8-729-901-01	TRANSISTOR DTC144EK	
L309	1-408-777-00	INDUCTOR CHIP 10uH		Q113	8-729-102-07	TRANSISTOR 2SC2223	
L310	1-407-169-XX	INDUCTOR CHIP 100uH		Q116	8-729-102-07	TRANSISTOR 2SC2223	
L312	1-408-781-00	INDUCTOR CHIP 22uH		Q117	8-729-102-07	TRANSISTOR 2SC2223	
L401	1-408-782-11	INDUCTOR CHIP 27uH		Q118	8-729-102-07	TRANSISTOR 2SC2223	
L402	1-408-970-21	INDUCTOR CHIP 10uH					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q119	8-729-102-07	TRANSISTOR 2SC2223		Q311	8-729-100-66	TRANSISTOR 2SC1623	
Q120	8-729-102-07	TRANSISTOR 2SC2223		Q312	8-729-901-06	TRANSISTOR DTA144EK	
Q121	8-729-100-66	TRANSISTOR 2SC1623		Q313	8-729-320-17	TRANSISTOR 2SA1122CD	
Q122	8-729-901-01	TRANSISTOR DTC144EK		Q314	8-729-100-66	TRANSISTOR 2SC1623	
Q123	8-729-901-01	TRANSISTOR DTC144EK		Q315	8-729-100-66	TRANSISTOR 2SC1623	
Q124	8-729-901-06	TRANSISTOR DTA144EK		Q316	8-729-901-01	TRANSISTOR DTC144EK	
Q125	8-729-901-01	TRANSISTOR DTC144EK		Q317	8-729-100-66	TRANSISTOR 2SC1623	
Q126	8-729-100-66	TRANSISTOR 2SC1623		Q318	8-729-901-06	TRANSISTOR DTA144EK	
Q127	8-729-100-66	TRANSISTOR 2SC1623		Q319	8-729-100-66	TRANSISTOR 2SC1623	
Q128	8-729-102-07	TRANSISTOR 2SC2223		Q320	8-729-901-01	TRANSISTOR DTC144EK	
Q129	8-729-100-66	TRANSISTOR 2SC1623		Q321	8-729-901-01	TRANSISTOR DTC144EK	
Q130	8-729-907-26	TRANSISTOR 1MX1		Q322	8-729-320-17	TRANSISTOR 2SA1122CD	
Q131	8-729-320-17	TRANSISTOR 2SA1122CD		Q323	8-729-901-01	TRANSISTOR DTC144EK	
Q132	8-729-202-38	TRANSISTOR 2SC3326N		Q324	8-729-901-01	TRANSISTOR DTC144EK	
Q181	8-729-907-46	TRANSISTOR 1MZ1		Q325	8-729-901-06	TRANSISTOR DTA144EK	
Q182	8-729-903-10	TRANSISTOR FMW1		Q326	8-729-901-06	TRANSISTOR DTA144EK	
Q184	8-729-320-17	TRANSISTOR 2SA1122CD		Q328	8-729-100-66	TRANSISTOR 2SC1623	
Q201	8-729-102-07	TRANSISTOR 2SC2223		Q401	8-729-100-66	TRANSISTOR 2SC1623	
Q202	8-729-202-38	TRANSISTOR 2SC3326N		Q402	8-729-100-66	TRANSISTOR 2SC1623	
Q203	8-729-202-38	TRANSISTOR 2SC3326N		Q403	8-729-901-01	TRANSISTOR DTC144EK	
Q204	8-729-904-07	TRANSISTOR FMG2		Q404	8-729-901-01	TRANSISTOR DTC144EK	
Q206	8-729-122-63	TRANSISTOR 2SA1226		Q405	8-729-901-06	TRANSISTOR DTA144EK	
Q207	8-729-202-38	TRANSISTOR 2SC3326N		Q406	8-729-100-66	TRANSISTOR 2SC1623	
Q208	8-729-201-27	TRANSISTOR 2SC2715		Q407	8-729-320-17	TRANSISTOR 2SA1122CD	
Q209	8-729-201-27	TRANSISTOR 2SC2715		Q408	8-729-320-17	TRANSISTOR 2SA1122CD	
Q210	8-729-102-07	TRANSISTOR 2SC2223		Q409	8-729-100-66	TRANSISTOR 2SC1623	
Q211	8-729-102-07	TRANSISTOR 2SC2223		Q410	8-729-320-17	TRANSISTOR 2SA1122CD	
Q212	8-729-901-01	TRANSISTOR DTC144EK		Q411	8-729-901-01	TRANSISTOR DTC144EK	
Q213	8-729-901-06	TRANSISTOR DTA144EK		Q412	8-729-901-01	TRANSISTOR DTC144EK	
Q214	8-729-102-07	TRANSISTOR 2SC2223		Q413	8-729-901-01	TRANSISTOR DTC144EK	
Q215	8-729-902-96	TRANSISTOR FMS1		Q414	8-729-100-66	TRANSISTOR 2SC1623	
Q217	8-729-102-07	TRANSISTOR 2SC2223		Q415	8-729-320-17	TRANSISTOR 2SA1122CD	
Q218	8-729-102-07	TRANSISTOR 2SC2223		Q416	8-729-320-17	TRANSISTOR 2SA1122CD	
Q219	8-729-901-01	TRANSISTOR DTC144EK		Q417	8-729-901-01	TRANSISTOR DTC144EK	
Q299	8-729-901-06	TRANSISTOR DTA144EK		Q418	8-729-100-66	TRANSISTOR 2SC1623	
Q301	8-729-100-66	TRANSISTOR 2SC1623		Q419	8-729-100-66	TRANSISTOR 2SC1623	
Q302	8-729-100-66	TRANSISTOR 2SC1623		Q420	8-729-202-38	TRANSISTOR 2SC3326N	
Q305	8-729-100-66	TRANSISTOR 2SC1623		Q421	8-729-202-38	TRANSISTOR 2SC3326N	
Q306	8-729-100-66	TRANSISTOR 2SC1623		Q422	8-729-100-66	TRANSISTOR 2SC1623	
Q307	8-729-100-66	TRANSISTOR 2SC1623		Q423	8-729-100-66	TRANSISTOR 2SC1623	
Q309	8-729-100-66	TRANSISTOR 2SC1623		Q424	8-729-901-01	TRANSISTOR DTC144EK	
Q310	8-729-100-66	TRANSISTOR 2SC1623		Q425	8-729-100-66	TRANSISTOR 2SC1623	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C611	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C655	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C612	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C656	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C613	1-135-073-00	TANTALUM CHIP 0.33uF	10% 35V	C657	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C614	1-163-098-00	CERAMIC CHIP 16PF	5% 50V	C658	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
C615	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	C659	1-163-111-00	CERAMIC CHIP 56PF	5% 50V
C616	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C660	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V
C617	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C661	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C618	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C662	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C619	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C663	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C620	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V	C664	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C621	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V	C701	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C622	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	C702	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C623	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	C703	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C624	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C704	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
C626	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	C705	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C627	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V	C706	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C628	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C707	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C629	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C708	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V
C630	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	C709	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C631	1-135-072-21	TANTALUM CHIP 0.22uF	10% 35V	C710	1-135-091-00	TANTALUM CHIP 1uF	20% 16V
C632	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V	C711	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C634	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V	C712	1-163-127-00	CERAMIC CHIP 270PF	5% 50V
C635	1-164-182-11	CERAMIC CHIP 0.0033uF	10% 50V	C713	1-135-097-21	TANTALUM CHIP 15uF	10% 10V
C636	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C714	1-135-097-21	TANTALUM CHIP 15uF	10% 10V
C637	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V	C715	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
C638	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	C716	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V
C639	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	C717	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V
C640	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C718	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C641	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C719	1-135-148-21	TANTALUM CHIP 1.5uF	20% 10V
C642	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C721	1-124-584-00	ELECT 100uF	20% 10V
C644	1-163-115-00	CERAMIC CHIP 82PF	5% 50V	C722	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C645	1-163-245-11	CERAMIC CHIP 56PF	5% 50V	C724	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C646	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C801	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C647	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C802	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C648	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C803	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C649	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	C804	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
C650	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C805	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C651	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C806	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C652	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V	C807	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C653	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C808	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V
C654	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C809	1-163-035-00	CERAMIC CHIP 0.047uF	50V
				C810	1-135-091-00	TANTALUM CHIP 1uF	20% 16V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C811	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	CNS12	1-506-472-11	CONNECTOR 7P, MALE	
C812	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	CNS14	1-506-471-11	CONNECTOR 6P, MALE	
C813	1-163-133-00	CERAMIC CHIP 470PF	5% 50V			(CAP TRIMMER)	
C814	1-135-097-21	TANTALUM CHIP 15uF	10% 10V				
C815	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V	CV601	1-141-311-11	CAP, TRIMMER 20PF	
C816	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V			(DIODE)	
C817	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V				
C818	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D101	8-719-400-18	DIODE MA152WK	
				D102	8-719-400-18	DIODE MA152WK	
C819	1-135-148-21	TANTALUM CHIP 1.5uF	20% 10V	D105	8-719-800-76	DIODE 1SS226	
C820	1-135-166-21	TANTALUM CHIP 47uF	10% 10V	D106	8-719-400-18	DIODE MA152WK	
C821	1-124-584-00	ELECT 100uF	20% 10V	D107	8-719-400-18	DIODE MA152WK	
C822	1-163-035-00	CERAMIC CHIP 0.047uF	50V				
C824	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	D108	8-719-400-18	DIODE MA152WK	
				D109	8-719-400-18	DIODE MA152WK	
C825	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	D301	8-719-400-18	DIODE MA152WK	
C826	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D302	8-719-400-18	DIODE MA152WK	
C851	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V	D401	8-719-400-18	DIODE MA152WK	
C852	1-163-035-00	CERAMIC CHIP 0.047uF	50V				
C853	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D402	8-719-400-18	DIODE MA152WK	
				D403	8-719-400-18	DIODE MA152WK	
C854	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	D404	8-719-400-18	DIODE MA152WK	
C855	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D405	8-719-400-18	DIODE MA152WK	
C856	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D501	8-719-400-18	DIODE MA152WK	
C857	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V				
C858	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	D701	8-719-104-34	DIODE 1S2836	
				D702	8-719-400-18	DIODE 1S2837	
C859	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D801	8-719-400-18	DIODE 1S2837	
C860	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	D802	8-719-400-18	DIODE 1S2837	
C901	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D803	8-719-104-34	DIODE 1S2836	
C902	1-163-035-00	CERAMIC CHIP 0.047uF	50V				
C903	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D901	8-719-400-18	DIODE MA152WK	
						(DELAY LINE)	
C904	1-163-035-00	CERAMIC CHIP 0.047uF	50V				
C905	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	DL501	1-415-611-11	DELAY LINE, GLASS (3.58MHz/10.7MHz)	
C906	1-163-035-00	CERAMIC CHIP 0.047uF	50V			(FILTER)	
C907	1-135-166-21	TANTALUM CHIP 47uF	10% 10V				
C908	1-163-035-00	CERAMIC CHIP 0.047uF	50V	FL301	1-236-370-11	LPF, DEMOD (Y)	
				FL401	1-415-647-11	DELAY LINE, LC (250ns)	
						(IC)	
		(CERAMIC FILTER)		IC101	8-759-233-94	IC TA8607F	
CF601	1-567-306-11	RESONATOR, CERAMIC		IC102	8-759-925-60	IC BA401	
CF851	1-567-390-11	FILTER, CERAMIC 10.7M		IC299	8-759-239-58	IC TC74HC221AF	
		(CONNECTOR)		IC301	8-752-002-XX	IC CX20030	
CN101	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P					
CN102	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P					
CN911	1-506-470-11	CONNECTOR 5P, MALE					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C112	1-163-245-11	CERAMIC CHIP	56PF 5%	C209	1-163-235-11	CERAMIC CHIP	22PF 5%
C113	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C210	1-163-106-00	CERAMIC CHIP	36PF 5%
C114	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C211	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C115	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C212	1-135-156-21	TANTALUM CHIP	6.8uF 10%
C116	1-135-070-00	TANTALUM CHIP	0.1uF 10%	C213	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C117	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C214	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C118	1-163-224-11	CERAMIC CHIP	7PF 0.25PF 50V	C215	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C119	1-163-227-11	CERAMIC CHIP	10PF 5%	C216	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C120	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C217	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C122	1-163-088-00	CERAMIC CHIP	5PF 50V	C218	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C123	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C219	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C124	1-163-104-00	CERAMIC CHIP	30PF 5%	C220	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C126	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C221	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C127	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C222	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C128	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C223	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C129	1-163-095-00	CERAMIC CHIP	12PF 5%	C224	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C130	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C225	1-163-097-00	CERAMIC CHIP	15PF 5%
C131	1-163-251-11	CERAMIC CHIP	100PF 5%	C226	1-163-122-00	CERAMIC CHIP	160PF 5%
C132	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C227	1-163-120-00	CERAMIC CHIP	130PF 5%
C133	1-163-097-00	CERAMIC CHIP	15PF 5%	C228	1-163-122-00	CERAMIC CHIP	160PF 5%
C134	1-163-227-11	CERAMIC CHIP	10PF 5%	C297	1-163-125-00	CERAMIC CHIP	220PF 5%
C135	1-163-224-11	CERAMIC CHIP	7PF 0.25PF 50V	C298	1-163-125-00	CERAMIC CHIP	220PF 5%
C136	1-163-099-00	CERAMIC CHIP	18PF 5%	C299	1-163-037-11	CERAMIC CHIP	0.022uF 10%
C137	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C302	1-135-162-21	TANTALUM CHIP	33uF 20%
C138	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C303	1-163-095-00	CERAMIC CHIP	12PF 5%
C139	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C304	1-163-099-00	CERAMIC CHIP	18PF 5%
C140	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C305	1-163-137-00	CERAMIC CHIP	680PF 5%
C141	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C307	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C142	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C308	1-135-156-21	TANTALUM CHIP	6.8uF 10%
C143	1-135-149-21	TANTALUM CHIP	2.2uF 20%	C309	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C145	1-163-117-00	CERAMIC CHIP	100PF 5%	C311	1-163-121-00	CERAMIC CHIP	150PF 5%
C146	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C313	1-135-166-21	TANTALUM CHIP	47uF 10%
C147	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C314	1-163-241-11	CERAMIC CHIP	39PF 5%
C181	1-163-141-00	CERAMIC CHIP	0.001uF 5%	C316	1-163-241-11	CERAMIC CHIP	39PF 5%
C182	1-163-141-00	CERAMIC CHIP	0.001uF 5%	C317	1-163-245-11	CERAMIC CHIP	56PF 5%
C183	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C318	1-164-491-11	CERAMIC CHIP	300PF 1%
C201	1-135-166-21	TANTALUM CHIP	47uF 10%	C319	1-163-035-00	CERAMIC CHIP	0.047uF 50V
C202	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C320	1-163-133-00	CERAMIC CHIP	470PF 5%
C204	1-163-127-00	CERAMIC CHIP	270PF 5%	C321	1-163-809-11	CERAMIC CHIP	0.047uF 10%
C206	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C322	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C207	1-163-035-00	CERAMIC CHIP	0.047uF 50V	C323	1-163-012-00	CERAMIC CHIP	0.0018uF 10%
C208	1-163-097-00	CERAMIC CHIP	15PF 5%	C324	1-163-035-00	CERAMIC CHIP	0.047uF 50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C325	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	C424	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V
C326	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C427	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
C327	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	C428	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V
C328	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C429	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
C329	1-135-166-21	TANTALUM CHIP 47uF	10% 10V	C501	1-135-166-21	TANTALUM CHIP 47uF	10% 10V
C330	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C502	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C331	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	C503	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
C332	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V	C504	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C334	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V	C505	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C335	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C506	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C337	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C507	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C338	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C508	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C339	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C509	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V
C340	1-135-072-21	TANTALUM CHIP 0.22uF	10% 35V	C510	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V
C341	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V	C512	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V
C343	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	C513	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C344	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C514	1-163-133-00	CERAMIC CHIP 470PF	5% 50V
C345	1-163-134-00	CERAMIC CHIP 510PF	5% 50V	C515	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C347	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C516	1-135-155-21	TANTALUM CHIP 4.7uF	10% 10V
C401	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C517	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C402	1-124-968-11	ELECT 22uF	20% 6.3V	C519	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V
C403	1-163-106-00	CERAMIC CHIP 36PF	5% 50V	C520	1-163-245-11	CERAMIC CHIP 56PF	5% 50V
C404	1-163-245-11	CERAMIC CHIP 56PF	5% 50V	C521	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C405	1-163-099-00	CERAMIC CHIP 18PF	5% 50V	C522	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C406	1-163-133-00	CERAMIC CHIP 470PF	5% 50V	C523	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C407	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V	C524	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
C408	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	C525	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C409	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C526	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V
C410	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C527	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V
C411	1-163-088-00	CERAMIC CHIP 5PF	50V	C528	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
C412	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	C529	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C413	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C530	1-163-227-11	CERAMIC CHIP 10PF	5% 50V
C414	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C601	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V
C415	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	C602	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C416	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C603	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C417	1-163-263-11	CERAMIC CHIP 330PF	5% 50V	C604	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C418	1-163-131-00	CERAMIC CHIP 390PF	5% 50V	C605	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C419	1-164-491-11	CERAMIC CHIP 300PF	1% 50V	C606	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V
C420	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	C607	1-135-070-00	TANTALUM CHIP 0.1uF	10% 35V
C421	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C608	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C422	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C609	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V
C423	1-163-035-00	CERAMIC CHIP 0.047uF	50V	C610	1-163-035-00	CERAMIC CHIP 0.047uF	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
(SWITCH)				C011	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V
S001	1-554-174-00	SWITCH, KEY BOARD (■ STOP)		C012	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
S002	1-554-174-00	SWITCH, KEY BOARD (● REC)		C013	1-163-038-00	CERAMIC CHIP 0.1uF	25V
S003	1-554-174-00	SWITCH, KEY BOARD (⇐ FF)		C031	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
S004	1-554-174-00	SWITCH, KEY BOARD (▲ EJECT)		C032	1-164-232-11	CERAMIC CHIP 0.01uF	50V
S005	1-554-174-00	SWITCH, KEY BOARD (▶ PLAY)		C033	1-164-232-11	CERAMIC CHIP 0.01uF	50V
S006	1-554-174-00	SWITCH, KEY BOARD (PAUSE)		C034	1-163-038-00	CERAMIC CHIP 0.1uF	25V
S007	1-554-174-00	SWITCH, KEY BOARD (POWER)		C041	1-164-232-11	CERAMIC CHIP 0.01uF	50V
S008	1-554-174-00	SWITCH, KEY BOARD (↔ REW)		C042	1-163-038-00	CERAMIC CHIP 0.1uF	25V
S009	1-554-174-00	SWITCH, KEY BOARD (RESET)		C044	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
S010	1-570-864-11	SWITCH, SLIDE (TC COUNTER)		C045	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
S011	1-570-836-11	SWITCH, SLIDE (AUDIO OUTPUT)		C046	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
S012	1-570-854-11	SWITCH, SLIDE (TIMER)		C047	1-163-115-00	CERAMIC CHIP 82PF	5% 50V
S013	1-570-864-11	SWITCH, SLIDE (AUTO REPEAT)		C051	1-163-038-00	CERAMIC CHIP 0.1uF	25V
S014	1-570-864-11	SWITCH, SLIDE (INPUT SELECT)		C052	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V
S015	1-554-174-00	SWITCH, KEY BOARD (AUDIO DUB)		C053	1-135-148-21	TANTALUM CHIP 1.5uF	20% 10V
S016	1-571-787-11	SWITCH, TACTILE (▶)		C054	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
S017	1-571-787-11	SWITCH, TACTILE (◀)		C055	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
S018	1-554-174-00	SWITCH, KEY BOARD (TC DUB)		C056	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
(CRYSTAL)				(CONNECTOR)			
X001	1-567-346-11	OSCILLATOR, CERAMIC (5MHz)		CN001	1-562-629-11	SOCKET, CONNECTOR 19P	
*****				CN002	1-565-209-11	CONNECTOR, FPC (ZIF) 26P	
* A-7061-821-A FR-40 BOARD, COMPLETE				CN003	1-506-473-11	CONNECTOR 8P, MALE	
*****				CN004	1-506-472-11	CONNECTOR 7P, MALE	
1-559-763-11 WIRE, FLAT TYPE 26P				(DIODE)			
* 3-739-102-01 LID (H), UPPER, FR SHIELD CASE				D001	8-719-400-18	DIODE MA152WK	
(CAPACITOR)				(IC)			
C001	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	IC051	8-759-710-09	IC NJM2233AM	
C002	1-163-035-00	CERAMIC CHIP 0.047uF	50V	(COIL)			
C003	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	L001	1-408-777-00	INDUCTOR CHIP 10uH	
C004	1-163-035-00	CERAMIC CHIP 0.047uF	50V	(TRANSISTOR)			
C005	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	Q001	8-729-202-38	TRANSISTOR 2SC3326N	
C006	1-163-035-00	CERAMIC CHIP 0.047uF	50V	Q002	8-729-202-38	TRANSISTOR 2SC3326N	
C007	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	Q003	8-729-202-38	TRANSISTOR 2SC3326N	
C008	1-163-035-00	CERAMIC CHIP 0.047uF	50V	Q004	8-729-202-38	TRANSISTOR 2SC3326N	
C009	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V	Q005	8-729-901-05	TRANSISTOR DTA124EK	
C010	1-163-038-00	CERAMIC CHIP 0.1uF	25V				

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Ref. No.	Part No.	Description
Q006	8-729-901-05	TRANSISTOR DTA124EK
Q007	8-729-901-01	TRANSISTOR DTC144EK
Q008	8-729-901-01	TRANSISTOR DTC144EK
Q009	8-729-320-17	TRANSISTOR 2SA1122CD
Q031	8-729-201-27	TRANSISTOR 2SC2715
Q032	8-729-102-07	TRANSISTOR 2SC2223
Q041	8-729-216-22	TRANSISTOR 2SA1162
Q042	8-729-119-76	TRANSISTOR 2SA1175
Q043	8-729-320-17	TRANSISTOR 2SA1122CD

< RESISTOR >

R001	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R002	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R003	1-216-097-00	METAL CHIP	100K	5%	1/10W
R004	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R005	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R006	1-216-097-00	METAL CHIP	100K	5%	1/10W
R007	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R008	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R009	1-216-097-00	METAL CHIP	100K	5%	1/10W
R010	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R011	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R012	1-216-097-00	METAL CHIP	100K	5%	1/10W
R016	1-216-073-00	METAL CHIP	10K	5%	1/10W
R017	1-216-049-00	METAL CHIP	1K	5%	1/10W
R018	1-216-695-11	METAL CHIP	68K	0.5%	1/10W
R019	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R020	1-216-025-00	METAL CHIP	100	5%	1/10W
R021	1-216-025-00	METAL CHIP	100	5%	1/10W
R022	1-216-025-00	METAL CHIP	100	5%	1/10W
R023	1-216-025-00	METAL CHIP	100	5%	1/10W
R024	1-216-033-00	METAL CHIP	220	5%	1/10W
R025	1-216-027-00	METAL CHIP	120	5%	1/10W
R031	1-216-041-00	METAL CHIP	470	5%	1/10W
R032	1-216-047-00	METAL CHIP	820	5%	1/10W
R033	1-216-035-00	METAL CHIP	270	5%	1/10W
R034	1-216-039-00	METAL CHIP	390	5%	1/10W
R035	1-216-085-00	METAL CHIP	33K	5%	1/10W
R036	1-216-077-00	METAL CHIP	15K	5%	1/10W
R041	1-216-085-00	METAL CHIP	33K	5%	1/10W
R042	1-216-081-00	METAL CHIP	22K	5%	1/10W
R043	1-216-035-00	METAL CHIP	270	5%	1/10W

Ref. No.	Part No.	Description	Remark
R044	1-216-033-00	METAL CHIP	220 5% 1/10W
R045	1-216-021-00	METAL CHIP	68 5% 1/10W
R046	1-216-009-00	METAL CHIP	22 5% 1/10W
R047	1-216-043-00	METAL CHIP	560 5% 1/10W
R048	1-216-081-00	METAL CHIP	22K 5% 1/10W
R049	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R051	1-216-035-00	METAL CHIP	270 5% 1/10W
R052	1-216-025-00	METAL CHIP	100 5% 1/10W

* 1-633-695-11 HE-2 BOARD

< CONNECTOR >

CN201 1-506-468-11 CONNECTOR 3P, MALE

< JACK >

J201 1-507-792-00 JACK (HEADPHONES)

* A-7061-820-A HK-4 BOARD, COMPLETE

3-531-576-01 RIVET

3-671-893-00 CLAMP (LOW TYPE)

* 3-724-107-01 RETAINER, PC BOARD

3-831-441-XX CUSHION (5)

< CAPACITOR >

C101	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C102	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C103	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C104	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C105	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C106	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C107	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C108	1-163-115-00	CERAMIC CHIP	82PF	5%	50V
C109	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C110	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C111	1-163-241-11	CERAMIC CHIP	39PF	5%	50V

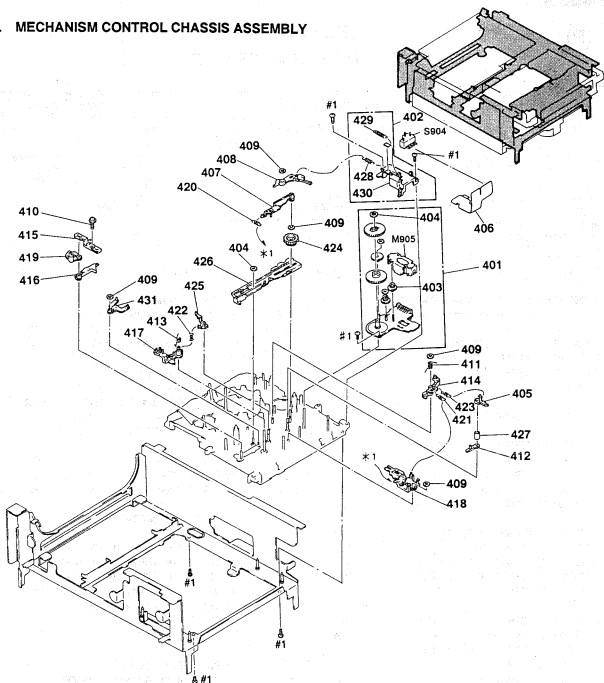
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D155	8-719-104-34	DIODE 1S2836		Q161	8-729-101-07	TRANSISTOR 2SB798-DLKD	
D156	8-719-104-34	DIODE 1S2836		Q162	8-729-202-38	TRANSISTOR 2SC3326N	
D157	8-719-400-18	DIODE MA152WK				< RESISTOR >	
D158	8-719-104-34	DIODE 1S2836					
		< IC >		R001	1-216-097-00	METAL CHIP 100K 5% 1/10W	
IC001	8-752-830-17	IC CXP5046H-262Q		R002	1-216-089-00	METAL CHIP 47K 5% 1/10W	
IC002	8-759-937-56	IC S-8054ALB-LM-S		R003	1-216-089-00	METAL CHIP 47K 5% 1/10W	
IC003	8-741-100-48	IC SBX1610-59		R005	1-216-085-00	METAL CHIP 4.7K 5% 1/10W	
IC004	8-759-927-46	IC SN74HC00ANS		R006	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
IC101	8-759-981-XX	IC NJM4560M					
IC102	8-759-300-71	IC TC4053BFBH		R007	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
IC152	8-759-981-92	IC NJM4558M		R008	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
IC153	8-759-981-92	IC NJM4558M		R009	1-216-085-00	METAL CHIP 4.7K 5% 1/10W	
IC154	8-759-700-62	IC NJM4562M		R010	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
		< COIL >		R011	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
L001	1-408-789-21	INDUCTOR, CHIP 100uH		R012	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
L101	1-408-979-21	INDUCTOR 56uH		R013	1-216-085-00	METAL CHIP 4.7K 5% 1/10W	
		< TRANSISTOR >		R014	1-216-051-00	METAL CHIP 1.2K 5% 1/10W	
Q012	8-729-901-06	TRANSISTOR DTA144EK		R015	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
Q013	8-729-140-88	TRANSISTOR FPIA3M		R016	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	
Q015	8-729-216-22	TRANSISTOR 2SA1162					
Q016	8-729-900-53	TRANSISTOR DTC114EK		R017	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q017	8-729-901-06	TRANSISTOR DTA144EK		R018	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q018	8-729-901-06	TRANSISTOR DTA144EK		R019	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q019	8-729-901-01	TRANSISTOR DTC144EK		R020	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q101	8-729-901-01	TRANSISTOR DTC144EK		R021	1-216-049-00	METAL CHIP 1K 5% 1/10W	
Q103	8-729-216-22	TRANSISTOR 2SA1162					
Q104	8-729-100-66	TRANSISTOR 2SC1623		R022	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q105	8-729-202-38	TRANSISTOR 2SC3326N		R023	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q106	8-729-202-38	TRANSISTOR 2SC3326N		R024	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q153	8-729-202-38	TRANSISTOR 2SC3326N		R025	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q154	8-729-202-38	TRANSISTOR 2SC3326N		R026	1-216-037-00	METAL CHIP 330 5% 1/10W	
Q155	8-729-202-38	TRANSISTOR 2SC3326N					
Q156	8-729-100-66	TRANSISTOR 2SC1623		R027	1-216-029-00	METAL CHIP 150 5% 1/10W	
Q157	8-729-901-06	TRANSISTOR DTA144EK		R028	1-216-029-00	METAL CHIP 150 5% 1/10W	
Q158	8-729-901-06	TRANSISTOR DTA144EK		R029	1-216-037-00	METAL CHIP 330 5% 1/10W	
Q159	8-729-901-01	TRANSISTOR DTC144EK		R030	1-216-037-00	METAL CHIP 330 5% 1/10W	
Q160	8-729-140-75	TRANSISTOR 2SD999-CLKC		R031	1-216-037-00	METAL CHIP 330 5% 1/10W	
				R032	1-216-037-00	METAL CHIP 330 5% 1/10W	
				R033	1-216-037-00	METAL CHIP 330 5% 1/10W	
				R034	1-216-037-00	METAL CHIP 330 5% 1/10W	
				R035	1-216-037-00	METAL CHIP 330 5% 1/10W	
				R036	1-216-037-00	METAL CHIP 330 5% 1/10W	
				R037	1-216-029-00	METAL CHIP 150 5% 1/10W	
				R038	1-216-029-00	METAL CHIP 150 5% 1/10W	
				R039	1-216-029-00	METAL CHIP 150 5% 1/10W	

FB-169 (P)

Ref. No.	Part No.	Description			
R040	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R041	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R042	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R043	1-216-089-00	METAL CHIP	47K	5%	1/10W
R044	1-216-089-00	METAL CHIP	47K	5%	1/10W
R045	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R046	1-216-049-00	METAL CHIP	1K	5%	1/10W
R047	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R048	1-216-037-00	METAL CHIP	330	5%	1/10W
R050	1-216-037-00	METAL CHIP	330	5%	1/10W
R051	1-216-037-00	METAL CHIP	330	5%	1/10W
R052	1-216-089-00	METAL CHIP	47K	5%	1/10W
R053	1-216-033-00	METAL CHIP	220	5%	1/10W
R054	1-216-033-00	METAL CHIP	220	5%	1/10W
R055	1-216-033-00	METAL CHIP	220	5%	1/10W
R103	1-216-073-00	METAL CHIP	10K	5%	1/10W
R104	1-216-073-00	METAL CHIP	10K	5%	1/10W
R105	1-216-113-00	METAL CHIP	470K	5%	1/10W
R106	1-216-085-00	METAL CHIP	33K	5%	1/10W
R107	1-216-085-00	METAL CHIP	33K	5%	1/10W
R108	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R109	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R110	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R111	1-216-113-00	METAL CHIP	470K	5%	1/10W
R112	1-216-037-00	METAL CHIP	330	5%	1/10W
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W
R114	1-216-073-00	METAL CHIP	10K	5%	1/10W
R123	1-216-089-00	METAL CHIP	47K	5%	1/10W
R124	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R125	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R126	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R127	1-216-037-00	METAL CHIP	330	5%	1/10W
R128	1-216-089-00	METAL CHIP	47K	5%	1/10W
R129	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R130	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R131	1-216-295-00	METAL CHIP	0	5%	1/10W
R132	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R133	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R134	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R135	1-216-295-00	METAL CHIP	0	5%	1/10W
R168	1-216-295-00	METAL CHIP	0	5%	1/10W
R170	1-216-082-00	METAL GLAZE	24K	5%	1/10W

Remark	Ref. No.	Part No.	Description			Remark
	R171	1-216-295-00	METAL CHIP	0	5%	1/10W
	R173	1-216-082-00	METAL GLAZE	24K	5%	1/10W
	R174	1-216-079-00	METAL CHIP	18K	5%	1/10W
	R175	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R176	1-216-097-00	METAL CHIP	100K	5%	1/10W
	R177	1-216-085-00	METAL CHIP	33K	5%	1/10W
	R178	1-216-097-00	METAL CHIP	100K	5%	1/10W
	R179	1-216-085-00	METAL CHIP	33K	5%	1/10W
	R180	1-216-079-00	METAL CHIP	18K	5%	1/10W
	R181	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R182	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R183	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R184	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R185	1-216-075-00	METAL CHIP	12K	5%	1/10W
	R186	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R187	1-216-075-00	METAL CHIP	12K	5%	1/10W
	R188	1-216-103-00	METAL CHIP	180K	5%	1/10W
	R189	1-216-107-00	METAL CHIP	270K	5%	1/10W
	R190	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
	R191	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
	R192	1-216-093-00	METAL CHIP	68K	5%	1/10W
	R193	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
	R194	1-216-295-00	METAL CHIP	0	5%	1/10W
	R195	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R196	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R197	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R198	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R199	1-216-107-00	METAL CHIP	270K	5%	1/10W
	R200	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R201	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
	R202	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R203	1-216-105-00	METAL CHIP	220K	5%	1/10W
	R204	1-216-105-00	METAL CHIP	220K	5%	1/10W
	(VARIABLE RESISTOR)					
	RV001	1-230-122-00	RES, VAR, CARBON 100K			
	RV002	1-230-874-11	RES, ADJ, METAL 100K			
	RV101	1-228-988-00	RES, VAR, CARBON 10K/10K			
	RV151	1-230-122-00	RES, VAR, CARBON 100K			
	RV152	1-230-122-00	RES, VAR, CARBON 100K			

5-9. MECHANISM CONTROL CHASSIS ASSEMBLY



Ref. No.	Part No.	Description
401	A-7040-159-A	M-SW ASSY
402	A-7040-198-A	COVER (M) ASSY, C MOTOR
403	3-308-502-00	WHEEL, WORM
404	3-315-384-31	WASHER, STOPPER
405	X-3711-993-1	BRAKE ASSY, REM
406	*1-630-923-11	FP-206 FLEXIBLE BOARD
407	*X-3686-528-4	ARM ASSY, B RELEASE
408	X-3711-987-2	BRAKE ASSY, T. S
409	3-669-465-00	WASHER (1.5), STOPPER
410	3-686-528-01	SCREW (2X6), +PSW
411	3-686-579-01	SPRING
412	*3-686-580-01	ARM, SET UP
413	3-686-603-04	SPRING
414	*3-686-634-01	ARM, RL
415	*3-686-642-01	PLATE, ADJUSTMENT, BAND
416	*3-686-643-01	ARM, MODE
417	*3-686-644-01	ARM, BAND

Ref. No.	Part No.	Description	Remark
418	*3-686-656-01	SLIDER, B RELEASE	
419	*3-686-755-01	DISK, EJECT	
420	3-686-903-01	SPRING, TENSION	
421	3-686-904-01	SPRING, TENSION	
422	3-686-905-02	SPRING, TENSION	
423	3-686-906-01	SPRING, TENSION	
424	3-686-909-01	GEAR, MODE OUTPUT	
425	3-686-996-01	BRAKE (S), HARD	
426	3-716-935-01	SLIDER, M	
427	3-716-933-01	SPACER, REM BRAKE	
428	3-714-035-01	SPRING, TENSION	
429	3-722-110-01	SPRING, TENSION	
430	3-739-107-01	COVER (M), C MOTOR	
431	*X-3686-530-01	ARM (A) ASSY, SELECTION	
M905	8-835-138-01	MOTOR, DC (DNR-5301B) (CONTROL)	
S904	1-572-298-21	SWITCH, PUSH (REC PROOF, MPH, ME/MP)	

FB-169 (P)

SECTION 6
ELECTRICAL PARTS LIST

NOTE:

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

• Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

• -XX, -X mean standardized parts, so they may have some difference from the original one.

• RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, u: μ , m: for example:

uA...: μ A..., uPA...: μ PA...,

uPB...: μ PB..., uPC...: μ PC...,

uPD...: μ PD...

• CAPACITORS

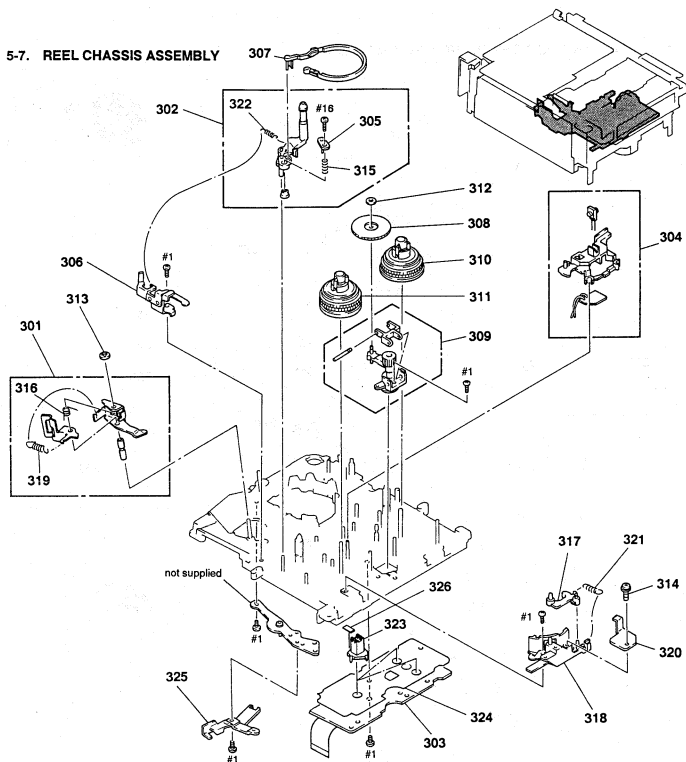
uF: μ F

• COILS

uH: μ H

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
* A-7062-654-A FB-169 (P) BOARD, COMPLETE *****				C165	1-163-038-00	CERAMIC CHIP 0.1uF	25V
				C166	1-163-038-00	CERAMIC CHIP 0.1uF	25V
				C167	1-126-160-11	ELECT 1uF	20% 50V
				C168	1-135-159-21	TANTALUM CHIP 10uF	10% 16V
				C169	1-135-153-21	TANTALUM CHIP 2.2uF	10% 20V
				C170	1-135-153-21	TANTALUM CHIP 2.2uF	10% 20V
				C171	1-135-159-21	TANTALUM CHIP 10uF	10% 16V
				C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V
				C173	1-163-014-00	CERAMIC CHIP 0.0027uF	5% 50V
				C174	1-163-014-00	CERAMIC CHIP 0.0027uF	5% 50V
				C175	1-163-012-00	CERAMIC CHIP 0.0018uF	10% 50V
				C176	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
(CAPACITOR)				(CONNECTOR)			
C001	1-163-035-00	CERAMIC CHIP 0.047uF	50V	CN001	1-569-301-11	PIN, CONNECTOR (PC BOARD) 5P	
C002	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V	CN002	1-569-301-11	PIN, CONNECTOR (PC BOARD) 5P	
C003	1-163-035-00	CERAMIC CHIP 0.047uF	50V	CN003	1-569-301-11	PIN, CONNECTOR (PC BOARD) 5P	
C006	1-163-035-00	CERAMIC CHIP 0.047uF	50V	CN004	1-569-301-11	PIN, CONNECTOR (PC BOARD) 5P	
C007	1-163-035-00	CERAMIC CHIP 0.047uF	50V	CN101	1-506-469-11	CONNECTOR 4P, MALE	
C008	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	(DIODE)			
C009	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	D001	8-719-800-76	DIODE 1SS226	
C010	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D009	8-719-945-82	DIODE GL5HS42 (STANDBY)	
C011	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D010	8-719-920-05	DIODE TLG123A (POWER)	
C012	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D011	8-719-907-92	DIODE GL5EG41 (PCM)	
C013	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D012	8-719-941-46	DIODE GL5HY41 (SP)	
C014	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V	D013	8-719-941-46	DIODE GL5HY41 (S)	
C015	1-163-035-00	CERAMIC CHIP 0.047uF	50V	D014	8-719-918-96	DIODE TL0123 (D)	
C101	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D015	8-719-812-32	DIODE TLY123 (D)	
C102	1-163-038-00	CERAMIC CHIP 0.1uF	25V	D016	8-719-920-05	DIODE TLG123A (H)	
C103	1-135-168-21	TANTALUM CHIP 100uF	20% 4V	D017	8-719-812-32	DIODE TLY123 (D)	
C104	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V	D018	8-719-939-36	DIODE GL5HY42 (A)	
C105	1-135-168-21	TANTALUM CHIP 100uF	20% 4V	D019	8-719-812-31	DIODE TLR123 (D)	
C106	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V	D020	8-719-913-59	DIODE LT-9230N (Hi8)	
C107	1-135-159-21	TANTALUM CHIP 10uF	10% 16V	D024	8-719-906-58	DIODE GL5HD41 (TIMER REC)	
C108	1-135-159-21	TANTALUM CHIP 10uF	10% 16V	D025	8-719-812-31	DIODE TLR123 (AUDIO DUB)	
C111	1-126-369-11	ELECT 220uF	20% 6.3V	D026	8-719-812-31	DIODE TLR123 (TC DUB)	
C112	1-126-369-11	ELECT 220uF	20% 6.3V	D101	8-719-104-34	DIODE 1S2836	
C113	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	D102	8-719-104-34	DIODE 1S2836	
C114	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	D103	1-520-503-11	METER UNIT, LED LEVEL	
C159	1-135-159-21	TANTALUM CHIP 10uF	10% 16V				
C160	1-163-145-00	CERAMIC CHIP 0.0015uF	5% 50V				
C161	1-163-038-00	CERAMIC CHIP 0.1uF	25V				
C162	1-135-149-21	TANTALUM CHIP 2.2uF	20% 10V				
C163	1-135-159-21	TANTALUM CHIP 10uF	10% 16V				
C164	1-135-070-00	TANTALUM CHIP 0.1uF	10% 35V				

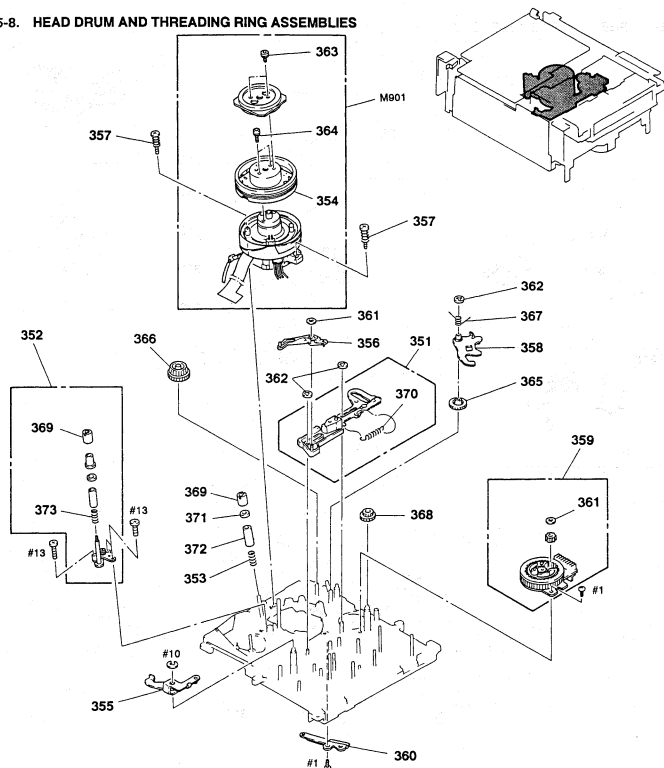
5-7. REEL CHASSIS ASSEMBLY



Ref. No.	Part No.	Description
301	A-7040-008-A	ARM ASSY, PINCH PRESS
302	A-7040-071-A	ARM ASSY, TENSION REGULATOR
303	*A-7061-818-A	RS-31 BOARD, COMPLETE
304	*A-7070-024-A	LD-1 BOARD, COMPLETE
305	*X-3686-523-1	PLATE ASSY, TENSION REGULATOR
306	*X-3686-525-1	HOOK ASSY, SPRING
307	X-3686-531-1	BAND ASSY, TENSION REGULATOR
308	X-3686-763-1	GEAR (B) ASSY, DRIVING
309	X-3711-963-1	DRIVING COMPLETE ASSY
310	X-3711-998-1	TABLE ASSY, REEL, TAKE-UP
311	X-3713-427-1	TABLE ASSY, REEL, S
312	3-315-384-31	WASHER, STOPPER
313	3-689-465-00	WASHER (1.5), STOPPER

Ref. No.	Part No.	Description	Remark
314	3-689-480-11	+ PTPWH 2	
315	3-689-666-00	SPRING, COMPRESSION	
316	3-686-568-01	SPRING, TORSION	
317	*3-686-637-01	BRAKE (S), SOFT	
318	*3-686-760-01	GUIDE, BAND	
319	3-686-885-01	SPRING, TENSION	
320	*3-686-991-01	STOPPER, REEL TABLE	
321	3-714-014-01	SPRING, TENSION	
322	3-699-519-01	SPRING, TENSION	
323	3-712-410-01	HOLDER, RS	
324	3-712-411-01	INSULATOR, RS	
325	3-712-406-01	CLAMP, WIRE	
326	3-722-175-01	SPACER, MD	

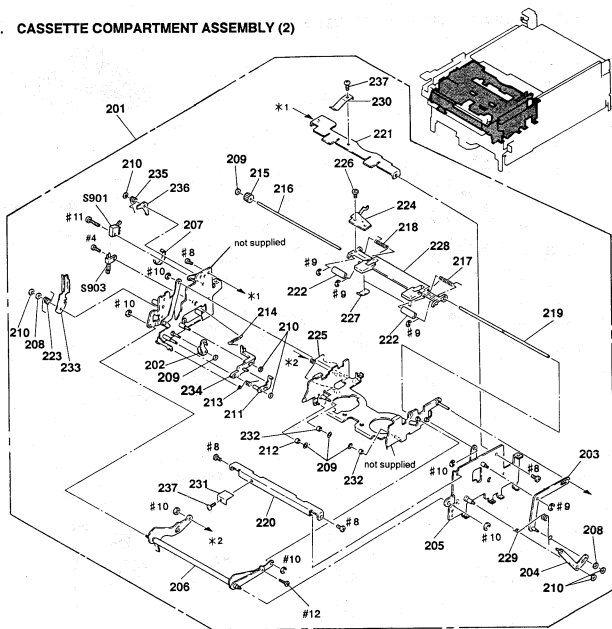
5-8. HEAD DRUM AND THREADING RING ASSEMBLIES



Ref. No.	Part No.	Description
351	*A-7040-010-A	SLIDER ASSY, L
352	A-7040-058-A	GUIDE BLOCK COMPLETE ASSY, #5
353	3-699-609-01	SPRING, COMPRESSION
354	A-7049-188-A	DRUM ASSY, ROTARY UPPER (DGR-35-R)
355	*X-3686-509-1	LEVER ASSY, PINCH PRESS
356	*X-3686-518-3	ARM ASSY
357	X-3686-569-1	SCREW ASSY, FITTING
358	X-3686-579-1	CHANGE ASSY, DRIVE
359	X-3712-403-1	L-SW ASSY (LS-9 BOARD)
360	1-535-535-11	TERMINAL, SHAFT GROUND
361	3-315-384-31	WASHER, STOPPER
362	3-669-465-00	WASHER (1.5), STOPPER

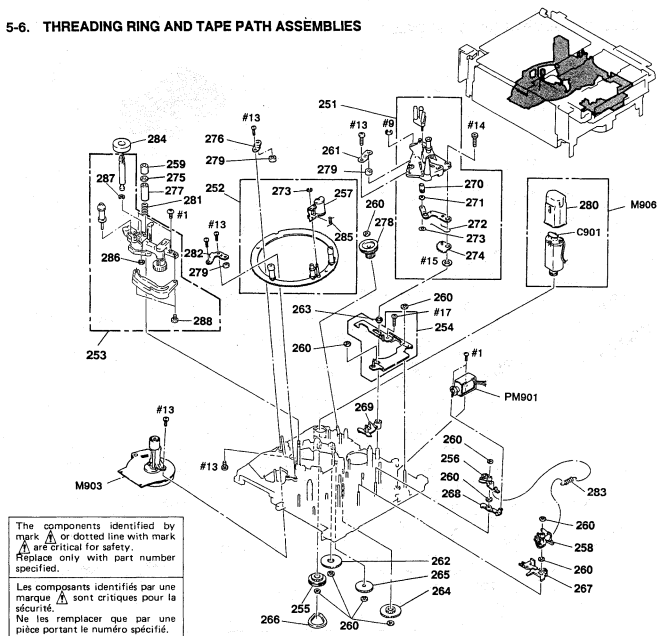
Ref. No.	Part No.	Description
363	3-686-422-01	WASHER (2X2.7), BOLT HOLE
364	3-686-493-01	SCREW (M2X5), P1
365	3-686-535-01	GEAR, NO. 8
366	3-686-539-01	GEAR, NO. 9
367	3-686-540-01	SPRING, TORSION
368	3-686-702-01	GEAR, DRIVING, GUIDE, SLANT
369	3-686-724-01	NUT, GUIDE
370	3-686-886-01	SPRING, TENSION
371	*3-686-894-01	FLANGE, #3 #4 GUIDE
372	3-686-912-01	GUIDE, #3 #4
373	3-699-514-01	SPRING, COMPRESSION
M901	A-7048-201-A	DRUM ASSY (DGH-35A-R)

5-5. CASSETTE COMPARTMENT ASSEMBLY (2)



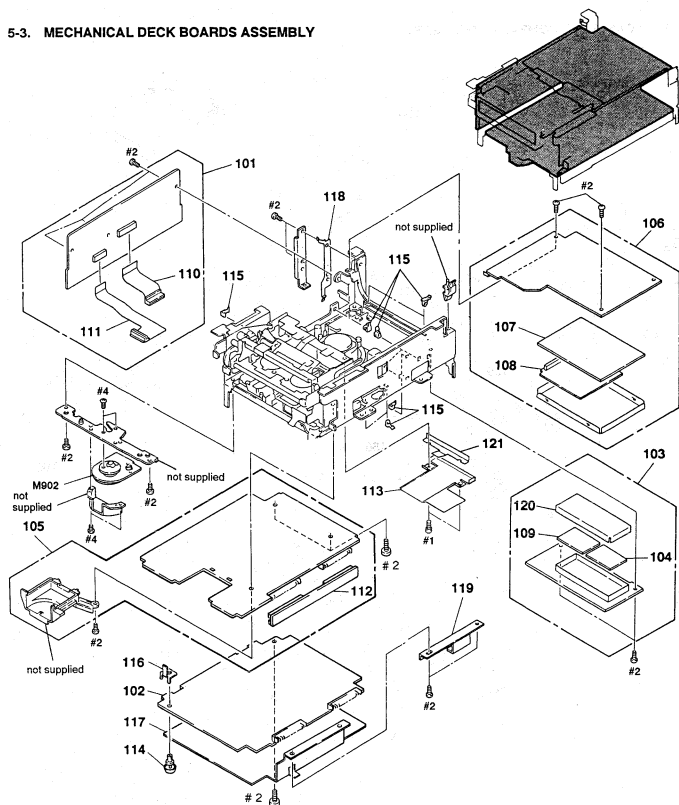
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	A-7090-645-A	CASSETTE COMPARTMENT BLOCK ASSY		221	*3-713-462-03	STOPPER, HOLDER	
202	*X-3686-541-1	CLAW ASSY, LOCK		222	3-713-466-01	ROLLER	
203	X-3711-930-1	LEVER ASSY, HOLDER		223	3-713-488-01	SPRINT (2), TORSION	
204	X-3711-931-4	LEVER ASSY, DOOR		224	3-724-912-01	PLATE, FUNCTION, LEVER	
205	*X-3711-932-1	PLATE (R) ASSY, SIDE		225	3-713-620-01	SPRING (1), TORSION	
206	*X-3711-937-1	JOINT ASSY		226	3-713-622-01	SCREW (M1.3X4), TAPPING, 0	
207	*3-337-402-01	BAND, BINDING		227	3-713-625-01	SHOE, BRAKE	
208	3-533-073-01	WASHER		228	3-713-626-01	COVER, MULTI	
209	3-578-265-11	WASHER, STOPPER		229	3-713-628-01	SPRING, TORSION	
210	3-668-465-00	WASHER (1.5), STOPPER		230	3-713-658-01	SPRING	
211	3-686-692-01	PREVENTION, SLIDER		231	3-716-921-01	SPRING, LEAF	
212	*3-686-693-01	ROLLER, LOCK		232	3-719-590-01	ROLLER, ASSIST	
213	3-686-694-01	SPRING, TORSION		233	3-721-125-01	LEVER, LOCK	
214	3-696-047-01	SPRING, TENSION		234	3-721-136-01	SLIDER, LOCK	
215	3-713-429-01	GEAR (D)		235	3-721-163-01	SPRING	
216	*3-713-440-01	SHAFT, ROLLER		236	3-721-166-01	LEVER, SWITCH	
217	3-713-442-01	SPRING (RIGHT)		237	3-739-116-01	SCREW (2X3), +PS	
218	3-713-445-01	SPRING (LEFT)		S901	1-570-407-11	SWITCH, SLIDE (CASSETTE LOADING)	
219	*3-713-457-01	SHAFT, JOINT		S903	1-553-226-00	SWITCH, LEAF (CASSETTE LOCK)	
220	*3-713-458-01	REINFORCEMENT					

5-6. THREADING RING AND TAPE PATH ASSEMBLIES



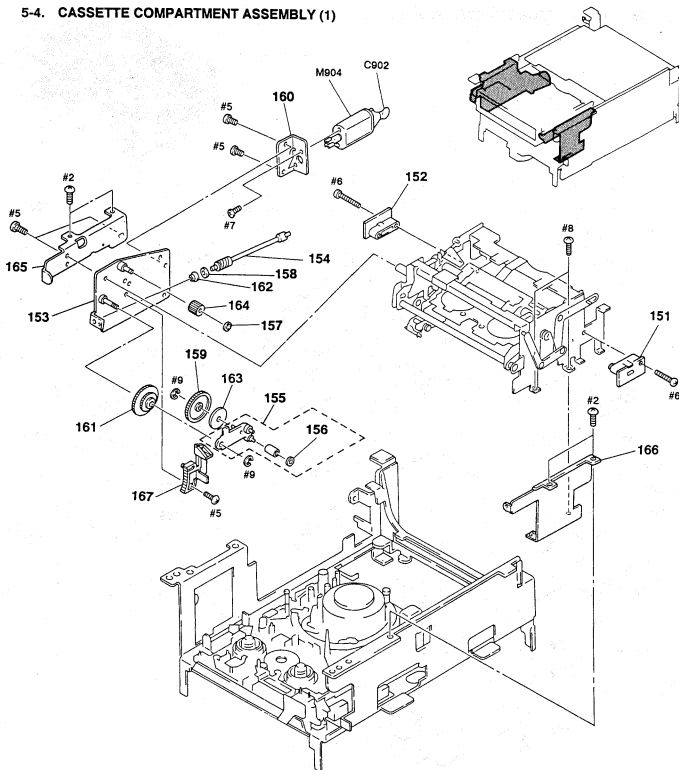
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	A-7040-001-A	GUIDE BLOCK ASSY, SLANT		272	3-686-701-01	SPRING	
252	A-7040-123-A	RING ASSY, THREADING		273	3-315-384-31	WASHER, STOPPER	
253	A-7040-169-D	GUIDE (P) ASSY, ENTRANCE		274	3-699-509-01	GEAR, SECTOR	
254	A-7040-199-A	SLIDER (M) BLOCK ASSY, LOCK		275	*3-686-894-01	FLANGE, #3 #4 GUIDE	
255	X-3686-514-1	GEAR ASSY, NO. 1		276	*3-686-911-01	PLATE, TOP, ROLLER	
256	X-3686-574-1	BRAKE ASSY, MAIN, TAKE-UP		277	3-686-912-01	GUIDE, #3 #4	
257	X-3686-576-1	ARM ASSY, PINCH ROLLER		278	3-697-518-01	GEAR, NO. 10	
258	X-3713-429-1	BRAKE ASSY, MAIN, S		279	3-697-538-01	ROLLER, RING	
259	3-686-724-01	NUT, GUIDE		280	*3-686-757-01	CAP, SHIELD, L MOTOR	
260	3-669-465-00	WASHER (1.5), STOPPER		281	3-699-609-01	SPRING, COMPRESSION	
261	*3-686-503-01	RETAINER, ROLLER		282	3-686-675-01	STOPPER, RING	
262	3-688-508-01	GEAR, NO. 2		283	3-713-560-01	SPRING, TENSION	
263	3-686-537-01	RETAINER, LOCK SLIDER		284	3-722-153-01	FLYWHEEL	
264	3-688-544-01	GEAR, NO. 4		285	*3-726-704-01	SPRING, TORSION	
265	3-686-545-01	GEAR, NO. 3		286	3-315-414-00	WASHER	
266	3-688-546-01	BELT, L-MOTOR		287	3-578-254-00	RING, RETAINING, E1.2	
267	*3-686-629-01	SLIDER, SELECTION, UPPER & LOWER		288	3-316-938-31	SCREW (B1.4X4), TAPPING	
268	*3-686-635-01	ARM, P		C901	1-161-057-00	CERAMIC 0.033UF 10% 50V	
269	*3-686-636-04	ARM, T.S. RELEASE		M903	8-835-364-01	MOTOR, DC BHF-28028 (CAPSTAN)	
270	3-686-663-01	WASHER, STOPPER, 2 GANG		M906	A-7040-065-A	MOTOR ASSY, L (LOADING)	
271	3-701-436-21	WASHER, POLYETHYLENE		PM901	1-454-377-31	SOLENOID, PLUNGER	

5-3. MECHANICAL DECK BOARDS ASSEMBLY



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	*A-7061-819-A	MD-23 BOARD, COMPLETE		112	*A-7070-955-A	IG-4 BOARD, COMPLETE	
102	*A-7061-820-A	HK-4 BOARD, COMPLETE		113	*X-3749-135-1	COVER BLOCK ASSY, FLEXIBLE	
103	*A-7061-821-A	FR-40 BOARD, COMPLETE		114	3-531-576-01	RIVET	
104	*A-7061-822-A	RP-73 (SP) BOARD, COMPLETE		115	*3-671-150-11	CLAMP	
105	*A-7061-823-A	SE-10 BOARD, COMPLETE		116	*3-724-107-01	RETAINER, PC BOARD	
106	*A-7062-565-A	MB-19 BOARD, COMPLETE		117	*3-940-849-01	PLATE, SHIELD, CORE	
107	*A-7062-566-A	PD-19 BOARD, COMPLETE		118	*3-724-199-01	PLATE, SUPPORT, MB	
108	*A-7061-826-A	PA-27 BOARD, COMPLETE		119	*3-738-954-01	STOPPER, HK	
109	*A-7061-827-A	RP-73 (LP) BOARD, COMPLETE		120	*3-739-102-01	LID (H), UPPER, FR SHIELD CASE	
110	*A-7070-624-A	FP-84 BOARD, COMPLETE		121	3-724-106-01	PLATE, GUARD, FLEXIBLE	
111	*A-7070-625-A	FP-122 BOARD, COMPLETE		M902	8-835-304-11	MOTOR, DC U-11B (REEL)	

5-4. CASSETTE COMPARTMENT ASSEMBLY (1)



Ref. No.	Part No.	Description
151	*A-7070-627-A	TS-74 (RIGHT) BOARD, COMPLETE
152	*A-7070-628-A	TS-74 (LEFT) BOARD, COMPLETE
153	*X-3711-934-1	PLATE SUB ASSY, BLOCK
154	X-3711-935-3	SHAFT ASSY, WORM
155	X-3714-193-1	LEVER ASSY (B), GEAR
156	3-315-414-31	WASHER
157	3-669-465-00	WASHER (1.5), STOPPER
158	3-701-437-11	WASHER
159	3-713-430-01	GEAR (B)
160	*3-713-431-01	BRACKET, MOTOR

Ref. No.	Part No.	Description	Remark
161	3-713-433-01	GEAR (A)	
162	3-713-439-01	BEARING	
163	*3-713-441-01	SPRING, LEAF	
164	3-713-452-01	GEAR (C)	
165	*3-724-140-01	BRACKET (LEFT)	
166	*3-724-141-01	BRACKET (RIGHT)	
167	3-724-913-02	RACK	
C902	1-161-057-00	CERAMIC	0.033uF 1% 50V
M904	X-3711-936-1	MOTOR ASSY, FL (CASSETTE LOADING)	



SECTION 5


EXPLODED VIEWS

NOTE:

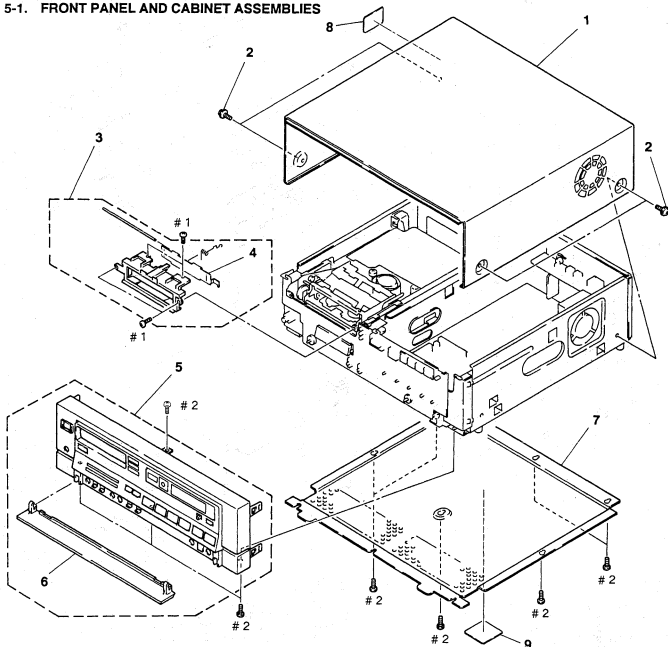
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked * * * are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

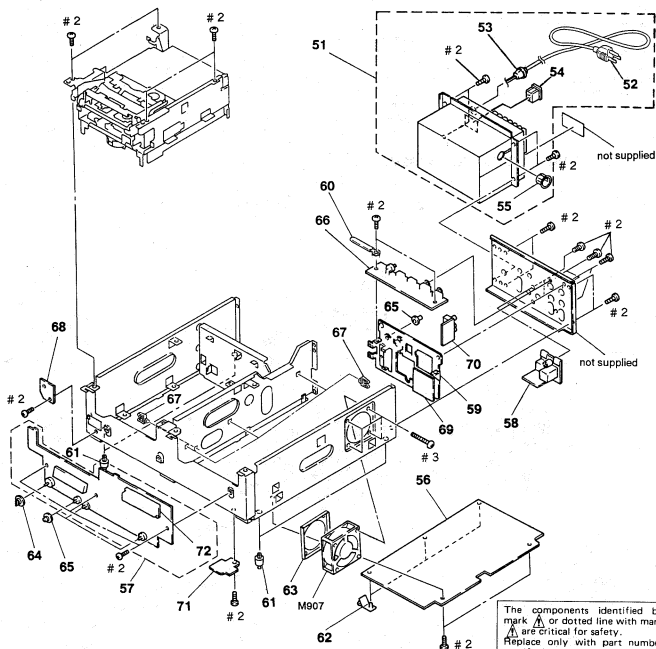
5-1. FRONT PANEL AND CABINET ASSEMBLIES



Ref. No.	Part No.	Description
1	*3-724-167-01	CASE, UPPER
2	4-886-821-11	SCREW, M3 CASE
3	*X-3738-905-1	WINDOW ASSY
4	*3-721-101-71	DOOR
5	X-3940-639-1	PANEL ASSY, FRONT

Remark	Ref. No.	Part No.	Description	Remark
	6	X-3940-638-1	DOOR ASSY	
	7	*3-724-168-01	PLATE, BOTTOM	
	8	3-703-845-01	LABEL (N) (U/C), MAIN CAUTION	
	9	3-703-848-01	LABEL (N), SUB CAUTION	

5-2. PC BOARDS AND POWER SUPPLY ASSEMBLIES



Ref. No.	Part No.	Description
51	Δ 1-413-519-11	POWER BLOCK
52	Δ A-534-517-81	CORD, POWER (10A 125V)
53	Δ 9-995-203-01	BUSHING, CORD
54	Δ 1-526-920-12	OUTLET, AC (15A 125V)
55	Δ 9-993-728-01	BUSHING
56	Δ A-7062-009-A	IF-20 BOARD, COMPLETE
57	Δ A-7062-654-A	FB-169 (P) BOARD, COMPLETE
58	Δ 1-536-977-11	TERMINAL BOARD UNIT, CONTROL (CONTROL P)
59	Δ 1-537-137-41	TERMINAL BOARD (J501 VIDEO IN, J502 VIDEO OUT, J503 AUDIO IN, J504 AUDIO OUT)
60	Δ 3-701-822-00	HOLDER, WIRE
61	Δ 3-694-479-01	FOOT

Ref. No.	Part No.	Description
62	Δ 3-696-448-01	HINGE, SS
63	Δ 3-697-996-01	BRACKET, FAN
64	Δ 3-724-112-01	KNOB, PHONE
65	Δ 3-724-113-01	KNOB, ADJUST
66	Δ 1-633-700-11	TR-40 BOARD
67	Δ 4-314-320-00	HOLDER, WIRE
68	Δ 1-633-695-11	HE-2 BOARD
69	Δ 1-633-696-11	JB-4 BOARD
70	Δ 1-633-697-11	JB-5 BOARD
71	Δ 1-633-698-11	MJ-5 BOARD
72	Δ 1-633-699-11	TC-20 BOARD
M907	Δ 1-541-360-21	MOTOR, DC BLUSHLESS FAN

IF-20

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q213	8-729-100-66	TRANSISTOR 2SC1623		Q411	8-729-100-66	TRANSISTOR 2SC1623	
Q214	8-729-100-66	TRANSISTOR 2SC1623		Q412	8-729-100-66	TRANSISTOR 2SC1623	
				Q413	8-729-100-66	TRANSISTOR 2SC1623	
Q215	8-729-100-66	TRANSISTOR 2SC1623		Q414	8-729-100-66	TRANSISTOR 2SC1623	
Q216	8-729-100-66	TRANSISTOR 2SC1623		Q501	8-729-100-66	TRANSISTOR 2SC1623	
Q217	8-729-100-66	TRANSISTOR 2SC1623					
Q220	8-729-100-66	TRANSISTOR 2SC1623		Q502	8-729-100-66	TRANSISTOR 2SC1623	
Q221	8-729-100-66	TRANSISTOR 2SC1623		Q503	8-729-901-06	TRANSISTOR DTA144EK	
				Q504	8-729-100-66	TRANSISTOR 2SC1623	
Q222	8-729-100-66	TRANSISTOR 2SC1623		Q505	8-729-100-66	TRANSISTOR 2SC1623	
Q223	8-729-100-66	TRANSISTOR 2SC1623		Q506	8-729-100-66	TRANSISTOR 2SC1623	
Q224	8-729-100-66	TRANSISTOR 2SC1623					
Q225	8-729-100-66	TRANSISTOR 2SC1623		Q507	8-729-901-06	TRANSISTOR DTA144EK	
Q226	8-729-320-17	TRANSISTOR 2SA1122CD		Q508	8-729-100-66	TRANSISTOR 2SC1623	
				Q509	8-729-100-66	TRANSISTOR 2SC1623	
Q227	8-729-100-66	TRANSISTOR 2SC1623		Q510	8-729-100-66	TRANSISTOR 2SC1623	
Q228	8-729-100-66	TRANSISTOR 2SC1623		Q511	8-729-100-66	TRANSISTOR 2SC1623	
Q229	8-729-100-66	TRANSISTOR 2SC1623					
Q230	8-729-100-66	TRANSISTOR 2SC1623		Q512	8-729-100-66	TRANSISTOR 2SC1623	
Q231	8-729-100-66	TRANSISTOR 2SC1623		Q513	8-729-100-66	TRANSISTOR 2SC1623	
				Q514	8-729-100-66	TRANSISTOR 2SC1623	
Q233	8-729-100-66	TRANSISTOR 2SC1623		Q515	8-729-100-66	TRANSISTOR 2SC1623	
Q234	8-729-100-66	TRANSISTOR 2SC1623		Q516	8-729-100-66	TRANSISTOR 2SC1623	
Q330	8-729-100-66	TRANSISTOR 2SC1623					
Q331	8-729-100-66	TRANSISTOR 2SC1623		Q517	8-729-901-06	TRANSISTOR DTA144EK	
Q332	8-729-100-66	TRANSISTOR 2SC1623		Q518	8-729-100-66	TRANSISTOR 2SC1623	
				Q519	8-729-100-66	TRANSISTOR 2SC1623	
Q333	8-729-100-66	TRANSISTOR 2SC1623		Q520	8-729-901-06	TRANSISTOR DTA144EK	
Q334	8-729-100-66	TRANSISTOR 2SC1623		Q521	8-729-901-06	TRANSISTOR DTA144EK	
Q335	8-729-100-66	TRANSISTOR 2SC1623					
Q336	8-729-100-66	TRANSISTOR 2SC1623		Q601	8-729-100-66	TRANSISTOR 2SC1623	
Q337	8-729-100-66	TRANSISTOR 2SC1623		Q602	8-729-901-01	TRANSISTOR DTC144EK	
				Q603	8-729-100-66	TRANSISTOR 2SC1623	
Q338	8-729-100-66	TRANSISTOR 2SC1623		Q604	8-729-100-66	TRANSISTOR 2SC1623	
Q339	8-729-100-66	TRANSISTOR 2SC1623		Q605	8-729-100-66	TRANSISTOR 2SC1623	
Q340	8-729-100-66	TRANSISTOR 2SC1623					
Q341	8-729-100-66	TRANSISTOR 2SC1623		Q606	8-729-100-66	TRANSISTOR 2SC1623	
Q342	8-729-100-66	TRANSISTOR 2SC1623		Q607	8-729-100-66	TRANSISTOR 2SC1623	
				Q608	8-729-100-66	TRANSISTOR 2SC1623	
Q401	8-729-100-66	TRANSISTOR 2SC1623		Q609	8-729-100-66	TRANSISTOR 2SC1623	
Q402	8-729-100-66	TRANSISTOR 2SC1623		Q610	8-729-100-66	TRANSISTOR 2SC1623	
Q403	8-729-100-66	TRANSISTOR 2SC1623					
Q404	8-729-100-66	TRANSISTOR 2SC1623		Q611	8-729-100-66	TRANSISTOR 2SC1623	
Q405	8-729-100-66	TRANSISTOR 2SC1623		Q612	8-729-901-06	TRANSISTOR DTA144EK	
				Q613	8-729-901-01	TRANSISTOR DTC144EK	
Q406	8-729-100-66	TRANSISTOR 2SC1623		Q614	8-729-901-01	TRANSISTOR DTC144EK	
Q407	8-729-100-66	TRANSISTOR 2SC1623		Q615	8-729-901-06	TRANSISTOR DTA144EK	
Q408	8-729-100-66	TRANSISTOR 2SC1623					
Q409	8-729-100-66	TRANSISTOR 2SC1623		Q616	8-729-901-06	TRANSISTOR DTA144EK	
Q410	8-729-100-66	TRANSISTOR 2SC1623		Q701	8-729-100-66	TRANSISTOR 2SC1623	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L214	1-408-979-21	INDUCTOR 56uH		Q052	8-729-202-38	TRANSISTOR 2SC3326N	
L215	1-408-972-21	INDUCTOR 15uH		Q053	8-729-202-38	TRANSISTOR 2SC3326N	
L332	1-408-979-21	INDUCTOR 56uH		Q054	8-729-202-38	TRANSISTOR 2SC3326N	
L334	1-408-979-21	INDUCTOR 56uH		Q055	8-729-202-38	TRANSISTOR 2SC3326N	
L335	1-408-975-21	INDUCTOR 27uH		Q056	8-729-202-38	TRANSISTOR 2SC3326N	
L402	1-408-979-21	INDUCTOR 56uH		Q057	8-729-202-38	TRANSISTOR 2SC3326N	
L403	1-408-979-21	INDUCTOR 56uH		Q060	8-729-101-07	TRANSISTOR 2SB798	
L501	1-408-962-21	INDUCTOR 2.2uH		Q061	8-729-901-01	TRANSISTOR DTC144EK	
L502	1-408-962-21	INDUCTOR 2.2uH		Q165	8-729-901-06	TRANSISTOR DTA144EK	
L503	1-408-962-21	INDUCTOR 2.2uH		Q166	8-729-901-01	TRANSISTOR DTC144EK	
L505	1-408-979-21	INDUCTOR 56uH		Q167	8-729-100-66	TRANSISTOR 2SC1623	
L506	1-408-979-21	INDUCTOR 56uH		Q168	8-729-901-06	TRANSISTOR DTA144EK	
L601	1-408-989-21	INDUCTOR 470uH		Q169	8-729-901-06	TRANSISTOR DTA144EK	
L602	1-408-979-21	INDUCTOR 56uH		Q170	8-729-901-06	TRANSISTOR DTA144EK	
L603	1-410-071-11	INDUCTOR 10mH		Q171	8-729-901-06	TRANSISTOR DTA144EK	
L701	1-408-979-21	INDUCTOR 56uH		Q172	8-729-100-66	TRANSISTOR 2SC1623	
L702	1-408-979-21	INDUCTOR 56uH		Q174	8-729-901-06	TRANSISTOR DTA144EK	
L705	1-408-964-21	INDUCTOR 3.3uH		Q175	8-729-901-06	TRANSISTOR DTA144EK	
L706	1-408-979-21	INDUCTOR 56uH		Q176	8-729-901-06	TRANSISTOR DTA144EK	
L707	1-408-964-21	INDUCTOR 3.3uH		Q177	8-729-901-06	TRANSISTOR DTA144EK	
L708	1-408-979-21	INDUCTOR 56uH		Q178	8-729-901-01	TRANSISTOR DTC144EK	
L709	1-408-979-21	INDUCTOR 56uH		Q179	8-729-901-06	TRANSISTOR DTA144EK	
L801	1-408-979-21	INDUCTOR 56uH		Q180	8-729-901-01	TRANSISTOR DTC144EK	
L802	1-408-979-21	INDUCTOR 56uH		Q181	8-729-901-01	TRANSISTOR DTC144EK	
(COIL VARIABLE)				Q182	8-729-216-22	TRANSISTOR 2SA1162	
LV201	1-408-520-00	COIL, VARIABLE 15uH		Q183	8-729-901-01	TRANSISTOR DTC144EK	
LV202	1-408-520-00	COIL, VARIABLE 15uH		Q184	8-729-901-01	TRANSISTOR DTC144EK	
(TRANSISTOR)				Q186	8-729-901-06	TRANSISTOR DTA144EK	
Q001	8-729-202-38	TRANSISTOR 2SC3326N		Q188	8-729-901-06	TRANSISTOR DTA144EK	
Q002	8-729-202-38	TRANSISTOR 2SC3326N		Q191	8-729-216-22	TRANSISTOR 2SA1162	
Q003	8-729-202-38	TRANSISTOR 2SC3326N		Q201	8-729-100-66	TRANSISTOR 2SC1623	
Q004	8-729-202-38	TRANSISTOR 2SC3326N		Q202	8-729-100-66	TRANSISTOR 2SC1623	
Q005	8-729-202-38	TRANSISTOR 2SC3326N		Q203	8-729-100-66	TRANSISTOR 2SC1623	
Q006	8-729-202-38	TRANSISTOR 2SC3326N		Q204	8-729-320-17	TRANSISTOR 2SA1122CD	
Q007	8-729-202-38	TRANSISTOR 2SC3326N		Q205	8-729-100-66	TRANSISTOR 2SC1623	
Q008	8-729-202-38	TRANSISTOR 2SC3326N		Q206	8-729-100-66	TRANSISTOR 2SC1623	
Q010	8-729-140-75	TRANSISTOR 2SD999		Q207	8-729-100-66	TRANSISTOR 2SC1623	
Q011	8-729-901-06	TRANSISTOR DTA144EK		Q208	8-729-320-17	TRANSISTOR 2SA1122CD	
Q051	8-729-202-38	TRANSISTOR 2SC3326N		Q209	8-729-320-17	TRANSISTOR 2SA1122CD	
				Q210	8-729-320-17	TRANSISTOR 2SA1122CD	
				Q211	8-729-320-17	TRANSISTOR 2SA1122CD	
				Q212	8-729-100-66	TRANSISTOR 2SC1623	

Ref. No.	Part No.	Description			
R077	1-216-089-00	METAL CHIP	47K	5%	1/10W
R078	1-216-073-00	METAL CHIP	10K	5%	1/10W
R079	1-216-073-00	METAL CHIP	10K	5%	1/10W
R080	1-216-095-00	METAL CHIP	82K	5%	1/10W
R081	1-216-073-00	METAL CHIP	10K	5%	1/10W
R082	1-216-091-00	METAL CHIP	56K	5%	1/10W
R083	1-216-049-00	METAL CHIP	1K	5%	1/10W
R084	1-216-094-00	METAL GLAZE	75K	5%	1/10W
R085	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R086	1-216-093-00	METAL CHIP	68K	5%	1/10W
R088	1-216-049-00	METAL CHIP	1K	5%	1/10W
R089	1-216-073-00	METAL CHIP	10K	5%	1/10W
R090	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R091	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R092	1-216-113-00	METAL CHIP	470K	5%	1/10W
R093	1-216-091-00	METAL CHIP	56K	5%	1/10W
R094	1-216-091-00	METAL CHIP	56K	5%	1/10W
R095	1-216-083-00	METAL CHIP	27K	5%	1/10W
R104	1-216-097-00	METAL CHIP	100K	5%	1/10W
R106	1-216-295-00	METAL CHIP	0	5%	1/10W
R109	1-216-089-00	METAL CHIP	47K	5%	1/10W
R110	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R111	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R112	1-216-093-00	METAL CHIP	68K	5%	1/10W
R113	1-216-295-00	METAL CHIP	0	5%	1/10W
R115	1-216-049-00	METAL CHIP	1K	5%	1/10W
R116	1-216-089-00	METAL CHIP	47K	5%	1/10W
R118	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R119	1-216-077-00	METAL CHIP	15K	5%	1/10W
R120	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R121	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R122	1-216-089-00	METAL CHIP	47K	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R125	1-216-079-00	METAL CHIP	18K	5%	1/10W
R126	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R127	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R128	1-216-089-00	METAL CHIP	47K	5%	1/10W
R129	1-216-113-00	METAL CHIP	470K	5%	1/10W
R130	1-216-295-00	METAL CHIP	0	5%	1/10W
R134	1-216-049-00	METAL CHIP	1K	5%	1/10W
R136	1-216-295-00	METAL CHIP	0	5%	1/10W
R139	1-216-089-00	METAL CHIP	47K	5%	1/10W

Remark	Ref. No.	Part No.	Description			Remark
	R140	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
	R141	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
	R142	1-216-093-00	METAL CHIP	68K	5%	1/10W
	R143	1-216-295-00	METAL CHIP	0	5%	1/10W
	R145	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R146	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R148	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
	R149	1-216-077-00	METAL CHIP	15K	5%	1/10W
	R150	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
	R151	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
	R152	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R153	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R155	1-216-079-00	METAL CHIP	18K	5%	1/10W
	R156	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
	R157	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
	R160	1-216-295-00	METAL CHIP	0	5%	1/10W
	R165	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R166	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R167	1-216-097-00	METAL CHIP	100K	5%	1/10W
	R168	1-216-097-00	METAL CHIP	100K	5%	1/10W
	R169	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R170	1-216-025-00	METAL CHIP	100	5%	1/10W
	R171	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R172	1-216-097-00	METAL CHIP	100K	5%	1/10W
	R173	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R174	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R175	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
	R176	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
	R177	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R178	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R179	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R180	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R181	1-216-105-00	METAL CHIP	220K	5%	1/10W
	R182	1-216-105-00	METAL CHIP	220K	5%	1/10W
	R183	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R184	1-216-083-00	METAL CHIP	27K	5%	1/10W
	R185	1-216-105-00	METAL CHIP	220K	5%	1/10W
	R186	1-216-105-00	METAL CHIP	220K	5%	1/10W
	R187	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R188	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R189	1-216-089-00	METAL CHIP	47K	5%	1/10W
	R190	1-216-089-00	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q702	8-729-100-66	TRANSISTOR 2SC1623		R005	1-216-748-11	METAL CHIP 39K 5X 1/10W	
Q703	8-729-202-38	TRANSISTOR 2SC3326N		R018	1-216-049-00	METAL CHIP 1K 5X 1/10W	
Q704	8-729-100-66	TRANSISTOR 2SC1623					
Q705	8-729-100-66	TRANSISTOR 2SC1623		R019	1-216-089-00	METAL CHIP 47K 5X 1/10W	
Q706	8-729-100-66	TRANSISTOR 2SC1623		R020	1-216-079-00	METAL CHIP 18K 5X 1/10W	
Q707	8-729-100-66	TRANSISTOR 2SC1623		R021	1-216-086-00	METAL GLAZE 36K 5X 1/10W	
Q708	8-729-100-66	TRANSISTOR 2SC1623		R022	1-216-083-00	METAL CHIP 27K 5X 1/10W	
Q709	8-729-100-66	TRANSISTOR 2SC1623		R023	1-216-073-00	METAL CHIP 10K 5X 1/10W	
Q710	8-729-100-66	TRANSISTOR 2SC1623		R024	1-216-061-00	METAL CHIP 3.3K 5X 1/10W	
Q711	8-729-100-66	TRANSISTOR 2SC1623		R025	1-216-295-00	METAL CHIP 0 5X 1/10W	
Q712	8-729-100-66	TRANSISTOR 2SC1623		R026	1-216-071-00	METAL CHIP 8.2K 5X 1/10W	
Q713	8-729-100-66	TRANSISTOR 2SC1623		R027	1-216-089-00	METAL CHIP 47K 5X 1/10W	
Q714	8-729-100-66	TRANSISTOR 2SC1623		R028	1-216-073-00	METAL CHIP 10K 5X 1/10W	
Q715	8-729-100-66	TRANSISTOR 2SC1623		R029	1-216-073-00	METAL CHIP 10K 5X 1/10W	
Q716	8-729-100-66	TRANSISTOR 2SC1623		R030	1-216-095-00	METAL CHIP 82K 5X 1/10W	
Q717	8-729-100-66	TRANSISTOR 2SC1623		R031	1-216-073-00	METAL CHIP 10K 5X 1/10W	
Q718	8-729-100-66	TRANSISTOR 2SC1623		R032	1-216-091-00	METAL CHIP 56K 5X 1/10W	
Q719	8-729-100-66	TRANSISTOR 2SC1623		R033	1-216-049-00	METAL CHIP 1K 5X 1/10W	
Q720	8-729-100-66	TRANSISTOR 2SC1623		R034	1-216-094-00	METAL GLAZE 75K 5X 1/10W	
Q721	8-729-320-17	TRANSISTOR 2SA1122CD		R035	1-216-057-00	METAL CHIP 2.2K 5X 1/10W	
Q722	8-729-100-66	TRANSISTOR 2SC1623		R036	1-216-093-00	METAL CHIP 68K 5X 1/10W	
Q723	8-729-100-66	TRANSISTOR 2SC1623		R038	1-216-049-00	METAL CHIP 1K 5X 1/10W	
Q724	8-729-100-66	TRANSISTOR 2SC1623		R039	1-216-073-00	METAL CHIP 10K 5X 1/10W	
Q725	8-729-100-66	TRANSISTOR 2SC1623		R040	1-216-065-00	METAL CHIP 4.7K 5X 1/10W	
Q726	8-729-100-66	TRANSISTOR 2SC1623		R041	1-216-065-00	METAL CHIP 4.7K 5X 1/10W	
Q727	8-729-216-22	TRANSISTOR 2SA1162		R042	1-216-113-00	METAL CHIP 470K 5X 1/10W	
Q901	8-729-901-01	TRANSISTOR DTC144EK		R043	1-216-075-00	METAL CHIP 12K 5X 1/10W	
Q902	8-729-901-01	TRANSISTOR DTC144EK		R044	1-216-059-00	METAL CHIP 2.7K 5X 1/10W	
Q903	8-729-901-01	TRANSISTOR DTC144EK		R045	1-216-057-00	METAL CHIP 2.2K 5X 1/10W	
Q904	8-729-901-01	TRANSISTOR DTC144EK		R046	1-216-073-00	METAL CHIP 10K 5X 1/10W	
Q905	8-729-901-05	TRANSISTOR DTA124EK		R051	1-216-113-00	METAL CHIP 470K 5X 1/10W	
Q906	8-729-100-66	TRANSISTOR 2SC1623		R052	1-216-091-00	METAL CHIP 56K 5X 1/10W	
Q907	8-729-100-66	TRANSISTOR 2SC1623		R053	1-216-095-00	METAL CHIP 82K 5X 1/10W	
Q908	8-729-100-66	TRANSISTOR 2SC1623		R055	1-216-748-11	METAL CHIP 39K 5X 1/10W	
Q909	8-729-100-66	TRANSISTOR 2SC1623		R068	1-216-049-00	METAL CHIP 1K 5X 1/10W	
Q910	8-729-100-66	TRANSISTOR 2SC1623		R069	1-216-089-00	METAL CHIP 47K 5X 1/10W	
Q911	8-729-901-06	TRANSISTOR DTA144EK		R070	1-216-079-00	METAL CHIP 18K 5X 1/10W	
				R071	1-216-086-00	METAL GLAZE 36K 5X 1/10W	
< RESISTOR >				R072	1-216-083-00	METAL CHIP 27K 5X 1/10W	
R001	1-216-113-00	METAL CHIP 470K 5X 1/10W		R073	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R002	1-216-091-00	METAL CHIP 56K 5X 1/10W		R074	1-216-061-00	METAL CHIP 3.3K 5X 1/10W	
R003	1-216-095-00	METAL CHIP 82K 5X 1/10W		R075	1-216-295-00	METAL CHIP 0 5X 1/10W	
				R076	1-216-071-00	METAL CHIP 8.2K 5X 1/10W	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R288	1-216-079-00	METAL CHIP	18K 5% 1/10W	R338	1-216-081-00	METAL CHIP	22K 5% 1/10W
R289	1-216-083-00	METAL CHIP	27K 5% 1/10W	R339	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R290	1-216-079-00	METAL CHIP	18K 5% 1/10W	R340	1-216-033-00	METAL CHIP	220 5% 1/10W
R291	1-216-045-00	METAL CHIP	680 5% 1/10W	R341	1-216-295-00	METAL CHIP	0 5% 1/10W
R292	1-216-045-00	METAL CHIP	680 5% 1/10W	R342	1-216-079-00	METAL CHIP	18K 5% 1/10W
R293	1-216-073-00	METAL CHIP	10K 5% 1/10W	R343	1-216-075-00	METAL CHIP	12K 5% 1/10W
R294	1-216-073-00	METAL CHIP	10K 5% 1/10W	R344	1-216-295-00	METAL CHIP	0 5% 1/10W
R295	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R345	1-216-041-00	METAL CHIP	470 5% 1/10W
R296	1-216-075-00	METAL CHIP	12K 5% 1/10W	R346	1-216-041-00	METAL CHIP	470 5% 1/10W
R297	1-216-081-00	METAL CHIP	22K 5% 1/10W	R348	1-216-043-00	METAL CHIP	560 5% 1/10W
R298	1-216-075-00	METAL CHIP	12K 5% 1/10W	R349	1-216-043-00	METAL CHIP	560 5% 1/10W
R299	1-216-075-00	METAL CHIP	12K 5% 1/10W	R350	1-216-079-00	METAL CHIP	18K 5% 1/10W
R300	1-216-059-00	METAL CHIP	2.7K 5% 1/10W	R351	1-216-075-00	METAL CHIP	12K 5% 1/10W
R301	1-216-063-00	METAL CHIP	3.9K 5% 1/10W	R352	1-216-059-00	METAL CHIP	2.7K 5% 1/10W
R302	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R353	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R303	1-216-075-00	METAL CHIP	12K 5% 1/10W	R354	1-218-152-11	METAL GLAZE	1.5K 1% 1/10W
R304	1-216-073-00	METAL CHIP	10K 5% 1/10W	R355	1-216-079-00	METAL CHIP	18K 5% 1/10W
R305	1-216-073-00	METAL CHIP	10K 5% 1/10W	R356	1-216-075-00	METAL CHIP	12K 5% 1/10W
R307	1-216-041-00	METAL CHIP	470 5% 1/10W	R357	1-216-295-00	METAL CHIP	0 5% 1/10W
R308	1-216-045-00	METAL CHIP	680 5% 1/10W	R358	1-216-041-00	METAL CHIP	470 5% 1/10W
R309	1-216-049-00	METAL CHIP	1K 5% 1/10W	R359	1-216-041-00	METAL CHIP	470 5% 1/10W
R310	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R361	1-216-042-00	METAL CHIP	510 5% 1/10W
R311	1-216-077-00	METAL CHIP	15K 5% 1/10W	R362	1-216-043-00	METAL CHIP	560 5% 1/10W
R312	1-216-079-00	METAL CHIP	18K 5% 1/10W	R363	1-216-079-00	METAL CHIP	18K 5% 1/10W
R313	1-216-083-00	METAL CHIP	27K 5% 1/10W	R364	1-216-075-00	METAL CHIP	12K 5% 1/10W
R314	1-216-079-00	METAL CHIP	18K 5% 1/10W	R365	1-216-059-00	METAL CHIP	2.7K 5% 1/10W
R315	1-216-045-00	METAL CHIP	680 5% 1/10W	R366	1-216-049-00	METAL CHIP	1K 5% 1/10W
R316	1-216-045-00	METAL CHIP	680 5% 1/10W	R367	1-216-079-00	METAL CHIP	18K 5% 1/10W
R317	1-216-073-00	METAL CHIP	10K 5% 1/10W	R368	1-216-079-00	METAL CHIP	18K 5% 1/10W
R318	1-216-073-00	METAL CHIP	10K 5% 1/10W	R369	1-216-049-00	METAL CHIP	1K 5% 1/10W
R319	1-216-083-00	METAL CHIP	27K 5% 1/10W	R370	1-216-049-00	METAL CHIP	1K 5% 1/10W
R320	1-216-049-00	METAL CHIP	1K 5% 1/10W	R371	1-216-077-00	METAL CHIP	15K 5% 1/10W
R321	1-216-055-00	METAL CHIP	1.8K 5% 1/10W	R372	1-216-081-00	METAL CHIP	22K 5% 1/10W
R322	1-216-081-00	METAL CHIP	22K 5% 1/10W	R373	1-216-049-00	METAL CHIP	1K 5% 1/10W
R330	1-216-049-00	METAL CHIP	1K 5% 1/10W	R374	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R331	1-216-077-00	METAL CHIP	15K 5% 1/10W	R375	1-218-150-11	METAL GLAZE	1.2K 1% 1/10W
R332	1-216-081-00	METAL CHIP	22K 5% 1/10W	R376	1-216-079-00	METAL CHIP	18K 5% 1/10W
R333	1-216-041-00	METAL CHIP	470 5% 1/10W	R377	1-216-075-00	METAL CHIP	12K 5% 1/10W
R334	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R378	1-216-041-00	METAL CHIP	470 5% 1/10W
R335	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W	R379	1-216-295-00	METAL CHIP	0 5% 1/10W
R336	1-218-149-11	METAL GLAZE	1.1K 1% 1/10W	R380	1-216-041-00	METAL CHIP	470 5% 1/10W
R337	1-216-077-00	METAL CHIP	15K 5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R192	1-216-049-00	METAL CHIP	1K 5% 1/10W	R240	1-216-047-00	METAL CHIP	820 5% 1/10W
R193	1-216-097-00	METAL CHIP	100K 5% 1/10W	R241	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R201	1-216-081-00	METAL CHIP	22K 5% 1/10W	R242	1-216-073-00	METAL CHIP	10K 5% 1/10W
R202	1-216-075-00	METAL CHIP	12K 5% 1/10W	R243	1-216-111-00	METAL CHIP	390K 5% 1/10W
R203	1-216-031-00	METAL CHIP	180 5% 1/10W	R244	1-216-041-00	METAL CHIP	470 5% 1/10W
R204	1-216-081-00	METAL CHIP	22K 5% 1/10W	R245	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R205	1-216-077-00	METAL CHIP	15K 5% 1/10W	R246	1-216-043-00	METAL CHIP	560 5% 1/10W
R206	1-216-043-00	METAL CHIP	560 5% 1/10W	R247	1-216-079-00	METAL CHIP	18K 5% 1/10W
R207	1-216-043-00	METAL CHIP	560 5% 1/10W	R248	1-216-077-00	METAL CHIP	15K 5% 1/10W
R208	1-216-043-00	METAL CHIP	560 5% 1/10W	R249	1-216-049-00	METAL CHIP	1K 5% 1/10W
R209	1-216-043-00	METAL CHIP	560 5% 1/10W	R250	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R210	1-216-043-00	METAL CHIP	560 5% 1/10W	R251	1-216-049-00	METAL CHIP	1K 5% 1/10W
R211	1-216-043-00	METAL CHIP	560 5% 1/10W	R252	1-216-045-00	METAL CHIP	680 5% 1/10W
R212	1-216-081-00	METAL CHIP	22K 5% 1/10W	R253	1-216-047-00	METAL CHIP	820 5% 1/10W
R213	1-216-075-00	METAL CHIP	12K 5% 1/10W	R254	1-216-047-00	METAL CHIP	820 5% 1/10W
R214	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R255	1-216-073-00	METAL CHIP	10K 5% 1/10W
R215	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R256	1-216-067-00	METAL CHIP	5.6K 5% 1/10W
R216	1-216-038-00	METAL CHIP	360 5% 1/10W	R257	1-216-649-11	METAL CHIP	820 0.5% 1/10W
R217	1-216-079-00	METAL CHIP	18K 5% 1/10W	R258	1-216-649-11	METAL CHIP	820 0.5% 1/10W
R218	1-216-077-00	METAL CHIP	15K 5% 1/10W	R259	1-216-041-00	METAL CHIP	470 5% 1/10W
R219	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R260	1-216-041-00	METAL CHIP	470 5% 1/10W
R220	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R261	1-216-049-00	METAL CHIP	1K 5% 1/10W
R221	1-216-049-00	METAL CHIP	1K 5% 1/10W	R262	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R222	1-216-295-00	METAL CHIP	0 5% 1/10W	R263	1-216-044-00	METAL CHIP	620 5% 1/10W
R223	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	R264	1-216-049-00	METAL CHIP	1K 5% 1/10W
R224	1-216-041-00	METAL CHIP	470 5% 1/10W	R265	1-216-041-00	METAL CHIP	470 5% 1/10W
R225	1-216-049-00	METAL CHIP	1K 5% 1/10W	R266	1-216-077-00	METAL CHIP	15K 5% 1/10W
R226	1-216-073-00	METAL CHIP	10K 5% 1/10W	R267	1-216-073-00	METAL CHIP	10K 5% 1/10W
R227	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R268	1-216-049-00	METAL CHIP	1K 5% 1/10W
R228	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R269	1-216-049-00	METAL CHIP	1K 5% 1/10W
R229	1-216-645-11	METAL CHIP	560 0.5% 1/10W	R270	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R230	1-216-041-00	METAL CHIP	470 5% 1/10W	R271	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R231	1-216-041-00	METAL CHIP	470 5% 1/10W	R272	1-216-073-00	METAL CHIP	10K 5% 1/10W
R232	1-216-047-00	METAL CHIP	820 5% 1/10W	R273	1-216-043-00	METAL CHIP	560 5% 1/10W
R233	1-216-049-00	METAL CHIP	1K 5% 1/10W	R274	1-216-043-00	METAL CHIP	560 5% 1/10W
R234	1-216-037-00	METAL CHIP	330 5% 1/10W	R275	1-216-045-00	METAL CHIP	680 5% 1/10W
R235	1-216-033-00	METAL CHIP	220 5% 1/10W	R276	1-216-045-00	METAL CHIP	680 5% 1/10W
R236	1-216-033-00	METAL CHIP	220 5% 1/10W	R283	1-216-041-00	METAL CHIP	470 5% 1/10W
R237	1-216-037-00	METAL CHIP	330 5% 1/10W	R284	1-216-045-00	METAL CHIP	680 5% 1/10W
R238	1-216-049-00	METAL CHIP	1K 5% 1/10W	R285	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
R239	1-216-047-00	METAL CHIP	820 5% 1/10W	R286	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
				R287	1-216-077-00	METAL CHIP	15K 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R530	1-216-079-00	METAL CHIP	18K 5% 1/10W	R608	1-216-049-00	METAL CHIP	1K 5% 1/10W
R531	1-216-049-00	METAL CHIP	1K 5% 1/10W	R609	1-216-049-00	METAL CHIP	1K 5% 1/10W
R532	1-216-049-00	METAL CHIP	1K 5% 1/10W	R610	1-216-073-00	METAL CHIP	10K 5% 1/10W
R533	1-216-621-11	METAL CHIP	56 0.50% 1/10W	R611	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R534	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R612	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R535	1-216-079-00	METAL CHIP	18K 5% 1/10W	R613	1-216-049-00	METAL CHIP	1K 5% 1/10W
R536	1-216-079-00	METAL CHIP	18K 5% 1/10W	R614	1-216-037-00	METAL CHIP	330 5% 1/10W
R537	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R615	1-216-041-00	METAL CHIP	470 5% 1/10W
R538	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R616	1-216-073-00	METAL CHIP	10K 5% 1/10W
R539	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R617	1-216-048-00	METAL CHIP	910 5% 1/10W
R540	1-216-295-00	METAL CHIP	0 5% 1/10W	R618	1-216-049-00	METAL CHIP	1K 5% 1/10W
R541	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R619	1-216-049-00	METAL CHIP	1K 5% 1/10W
R542	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R620	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R543	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R621	1-216-073-00	METAL CHIP	10K 5% 1/10W
R544	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R622	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R545	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W	R623	1-216-059-00	METAL CHIP	2.7K 5% 1/10W
R546	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W	R624	1-216-077-00	METAL CHIP	15K 5% 1/10W
R547	1-216-079-00	METAL CHIP	18K 5% 1/10W	R625	1-216-073-00	METAL CHIP	10K 5% 1/10W
R548	1-216-081-00	METAL CHIP	22K 5% 1/10W	R626	1-216-039-00	METAL CHIP	390 5% 1/10W
R549	1-216-049-00	METAL CHIP	1K 5% 1/10W	R627	1-216-041-00	METAL CHIP	470 5% 1/10W
R550	1-218-156-11	METAL GLAZE	8.2K 1% 1/10W	R628	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R551	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R629	1-216-037-00	METAL CHIP	330 5% 1/10W
R552	1-216-327-11	METAL GLAZE	2K 1% 1/10W	R632	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R553	1-216-327-11	METAL GLAZE	2K 1% 1/10W	R633	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R554	1-216-047-00	METAL CHIP	820 5% 1/10W	R634	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R555	1-216-295-00	METAL CHIP	0 5% 1/10W	R635	1-216-031-00	METAL CHIP	180 5% 1/10W
R556	1-216-049-00	METAL CHIP	1K 5% 1/10W	R636	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R557	1-216-295-00	METAL CHIP	0 5% 1/10W	R637	1-216-077-00	METAL CHIP	15K 5% 1/10W
R558	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R638	1-216-073-00	METAL CHIP	10K 5% 1/10W
R559	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W	R639	1-216-041-00	METAL CHIP	470 5% 1/10W
R560	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R640	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R561	1-216-079-00	METAL CHIP	18K 5% 1/10W	R641	1-216-059-00	METAL CHIP	2.7K 5% 1/10W
R562	1-216-079-00	METAL CHIP	18K 5% 1/10W	R642	1-216-093-00	METAL CHIP	68K 5% 1/10W
R563	1-216-049-00	METAL CHIP	1K 5% 1/10W	R643	1-216-043-00	METAL CHIP	560 5% 1/10W
R564	1-216-333-11	METAL CHIP	15K 1% 1/10W	R644	1-216-055-00	METAL CHIP	1.8K 5% 1/10W
R601	1-216-073-00	METAL CHIP	10K 5% 1/10W	R645	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R602	1-216-073-00	METAL CHIP	10K 5% 1/10W	R646	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R603	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R701	1-216-081-00	METAL CHIP	22K 5% 1/10W
R605	1-216-073-00	METAL CHIP	10K 5% 1/10W	R702	1-216-073-00	METAL CHIP	10K 5% 1/10W
R606	1-216-041-00	METAL CHIP	470 5% 1/10W	R703	1-216-049-00	METAL CHIP	1K 5% 1/10W
R607	1-216-037-00	METAL CHIP	330 5% 1/10W	R704	1-216-036-00	METAL CHIP	300 5% 1/10W
				R705	1-216-045-00	METAL CHIP	680 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R382	1-216-041-00	METAL CHIP	470 5% 1/10W	R436	1-216-073-00	METAL CHIP	10K 5% 1/10W
R383	1-216-043-00	METAL CHIP	560 5% 1/10W	R437	1-216-041-00	METAL CHIP	470 5% 1/10W
R384	1-216-079-00	METAL CHIP	18K 5% 1/10W	R438	1-216-041-00	METAL CHIP	470 5% 1/10W
R385	1-216-075-00	METAL CHIP	12K 5% 1/10W				
R386	1-216-059-00	METAL CHIP	2.7K 5% 1/10W	R439	1-216-045-00	METAL CHIP	680 5% 1/10W
				R440	1-216-043-00	METAL CHIP	560 5% 1/10W
R391	1-216-025-00	METAL CHIP	100 5% 1/10W	R441	1-216-077-00	METAL CHIP	15K 5% 1/10W
R392	1-216-025-00	METAL CHIP	100 5% 1/10W	R442	1-216-073-00	METAL CHIP	10K 5% 1/10W
R393	1-216-025-00	METAL CHIP	100 5% 1/10W	R443	1-216-059-00	METAL CHIP	2.7K 5% 1/10W
R401	1-216-723-11	METAL GLAZE	5.6K 1% 1/10W				
R402	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R444	1-216-049-00	METAL CHIP	1K 5% 1/10W
				R445	1-216-081-00	METAL CHIP	22K 5% 1/10W
R403	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R446	1-216-081-00	METAL CHIP	22K 5% 1/10W
R404	1-216-081-00	METAL CHIP	22K 5% 1/10W	R447	1-216-081-00	METAL CHIP	22K 5% 1/10W
R405	1-216-075-00	METAL CHIP	12K 5% 1/10W	R448	1-216-081-00	METAL CHIP	22K 5% 1/10W
R406	1-216-041-00	METAL CHIP	470 5% 1/10W				
R408	1-218-142-11	METAL GLAZE	470 1% 1/10W	R501	1-216-079-00	METAL CHIP	18K 5% 1/10W
				R502	1-216-081-00	METAL CHIP	22K 5% 1/10W
R409	1-216-631-11	METAL CHIP	150 0.5% 1/10W	R503	1-216-049-00	METAL CHIP	1K 5% 1/10W
R410	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R504	1-218-156-11	METAL GLAZE	8.2K 1% 1/10W
R411	1-216-043-00	METAL CHIP	560 5% 1/10W	R505	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R412	1-216-081-00	METAL CHIP	22K 5% 1/10W				
R413	1-216-075-00	METAL CHIP	12K 5% 1/10W	R506	1-216-327-11	METAL GLAZE	2K 1% 1/10W
				R507	1-216-327-11	METAL GLAZE	2K 1% 1/10W
R414	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R508	1-216-047-00	METAL CHIP	820 5% 1/10W
R415	1-216-077-00	METAL CHIP	15K 5% 1/10W	R509	1-216-295-00	METAL CHIP	0 5% 1/10W
R416	1-216-073-00	METAL CHIP	10K 5% 1/10W	R510	1-216-049-00	METAL CHIP	1K 5% 1/10W
R417	1-216-041-00	METAL CHIP	470 5% 1/10W				
R418	1-216-041-00	METAL CHIP	470 5% 1/10W	R511	1-216-737-11	METAL GLAZE	1K 1% 1/10W
				R512	1-216-295-00	METAL CHIP	0 5% 1/10W
R419	1-216-045-00	METAL CHIP	680 5% 1/10W	R513	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W
R420	1-216-043-00	METAL CHIP	560 5% 1/10W	R514	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R421	1-216-077-00	METAL CHIP	15K 5% 1/10W	R515	1-216-079-00	METAL CHIP	18K 5% 1/10W
R422	1-216-073-00	METAL CHIP	10K 5% 1/10W				
R423	1-216-059-00	METAL CHIP	2.7K 5% 1/10W	R516	1-216-079-00	METAL CHIP	18K 5% 1/10W
				R517	1-216-049-00	METAL CHIP	1K 5% 1/10W
R424	1-216-049-00	METAL CHIP	1K 5% 1/10W	R518	1-218-156-11	METAL GLAZE	8.2K 1% 1/10W
R425	1-216-081-00	METAL CHIP	22K 5% 1/10W	R519	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R426	1-216-075-00	METAL CHIP	12K 5% 1/10W	R520	1-216-327-11	METAL GLAZE	2K 1% 1/10W
R427	1-216-041-00	METAL CHIP	470 5% 1/10W				
R428	1-218-142-11	METAL GLAZE	470 1% 1/10W	R521	1-216-327-11	METAL GLAZE	2K 1% 1/10W
				R522	1-216-047-00	METAL CHIP	820 5% 1/10W
R429	1-216-295-00	METAL CHIP	0 5% 1/10W	R523	1-216-295-00	METAL CHIP	0 5% 1/10W
R430	1-216-737-11	METAL GLAZE	1K 1% 1/10W	R524	1-216-049-00	METAL CHIP	1K 5% 1/10W
R431	1-216-043-00	METAL CHIP	560 5% 1/10W	R525	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R432	1-216-081-00	METAL CHIP	22K 5% 1/10W				
R433	1-216-075-00	METAL CHIP	12K 5% 1/10W	R526	1-216-295-00	METAL CHIP	0 5% 1/10W
				R527	1-216-518-00	METAL GLAZE	2.2K 1% 1/10W
R434	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	R528	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R435	1-216-077-00	METAL CHIP	15K 5% 1/10W	R529	1-216-079-00	METAL CHIP	18K 5% 1/10W

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Ref. No.	Part No.	Description			
R794	1-216-295-00	METAL CHIP	0	5%	1/10W
R795	1-216-025-00	METAL CHIP	100	5%	1/10W
R796	1-216-025-00	METAL CHIP	100	5%	1/10W
R802	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R803	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R804	1-216-022-00	METAL CHIP	75	5%	1/10W
R806	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R807	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R808	1-216-022-00	METAL CHIP	75	5%	1/10W
R809	1-216-015-00	METAL CHIP	39	5%	1/10W
R810	1-216-015-00	METAL CHIP	39	5%	1/10W
R811	1-216-015-00	METAL CHIP	39	5%	1/10W
R812	1-216-015-00	METAL CHIP	39	5%	1/10W
R814	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R815	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R816	1-216-022-00	METAL CHIP	75	5%	1/10W
R818	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R819	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R820	1-216-022-00	METAL CHIP	75	5%	1/10W
R821	1-216-015-00	METAL CHIP	39	5%	1/10W
R822	1-216-015-00	METAL CHIP	39	5%	1/10W
R823	1-216-079-00	METAL CHIP	18K	5%	1/10W
R824	1-216-085-00	METAL CHIP	33K	5%	1/10W
R901	1-216-089-00	METAL CHIP	47K	5%	1/10W
R902	1-216-089-00	METAL CHIP	47K	5%	1/10W
R903	1-216-089-00	METAL CHIP	47K	5%	1/10W
R904	1-216-089-00	METAL CHIP	47K	5%	1/10W
R906	1-216-081-00	METAL CHIP	22K	5%	1/10W
R907	1-216-081-00	METAL CHIP	22K	5%	1/10W
R908	1-216-073-00	METAL CHIP	10K	5%	1/10W
R909	1-216-049-00	METAL CHIP	1K	5%	1/10W
R910	1-216-107-00	METAL CHIP	270K	5%	1/10W
R911	1-216-073-00	METAL CHIP	10K	5%	1/10W
R912	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R913	1-216-073-00	METAL CHIP	10K	5%	1/10W
R914	1-216-081-00	METAL CHIP	22K	5%	1/10W
R915	1-216-081-00	METAL CHIP	22K	5%	1/10W
R916	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R917	1-216-025-00	METAL CHIP	100	5%	1/10W
R918	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R919	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R920	1-216-031-00	METAL CHIP	180	5%	1/10W

Ref. No.	Part No.	Description			
R921	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R922	1-216-093-00	METAL CHIP	68K	5%	1/10W
R923	1-216-091-00	METAL CHIP	56K	5%	1/10W
R924	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R925	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R926	1-216-077-00	METAL CHIP	15K	5%	1/10W
R927	1-216-085-00	METAL CHIP	33K	5%	1/10W
R928	1-216-049-00	METAL CHIP	1K	5%	1/10W
R929	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
(VARIABLE RESISTOR)					
RV201	1-230-519-11	RES. ADJ. METAL	470		
RV202	1-230-520-11	RES. ADJ. METAL	1K		
RV203	1-230-520-11	RES. ADJ. METAL	1K		
RV204	1-230-519-11	RES. ADJ. METAL	470		
RV205	1-230-521-11	RES. ADJ. METAL	2.2K		
RV401	1-230-519-11	RES. ADJ. METAL	470		
RV402	1-230-519-11	RES. ADJ. METAL	470		
RV601	1-230-520-11	RES. ADJ. METAL	1K		
RV602	1-230-520-11	RES. ADJ. METAL	1K		
RV702	1-230-522-11	RES. ADJ. METAL	4.7K		
RV703	1-230-521-11	RES. ADJ. METAL	2.2K		
RV704	1-230-531-11	RES. ADJ. METAL	GLAZE 220		
RV705	1-230-519-11	RES. ADJ. METAL	470		
RV706	1-230-522-11	RES. ADJ. METAL	4.7K		
RV707	1-230-519-11	RES. ADJ. METAL	470		
RV708	1-230-519-11	RES. ADJ. METAL	470		
RV901	1-230-523-11	RES. ADJ. METAL	10K		
(THERMISTOR)					
TH701	1-800-200-00	THERMISTOR	S-3K		

* 1-633-696-11 JB-4 BOARD					

(CAPACITOR)					
C501	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C502	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C503	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R706	1-216-049-00	METAL CHIP	1K 5% 1/10W	R750	1-216-081-00	METAL CHIP	22K 5% 1/10W
R707	1-216-041-00	METAL CHIP	470 5% 1/10W	R751	1-216-083-00	METAL CHIP	27K 5% 1/10W
R708	1-216-052-00	METAL CHIP	1.3K 5% 1/10W	R752	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R709	1-216-049-00	METAL CHIP	1K 5% 1/10W	R753	1-216-075-00	METAL CHIP	12K 5% 1/10W
R710	1-216-033-00	METAL CHIP	220 5% 1/10W	R754	1-216-081-00	METAL CHIP	22K 5% 1/10W
R711	1-216-049-00	METAL CHIP	1K 5% 1/10W	R755	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R712	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	R756	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R713	1-216-043-00	METAL CHIP	560 5% 1/10W	R757	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R714	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R758	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R715	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R759	1-216-053-00	METAL CHIP	1.5K 5% 1/10W
R716	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R760	1-216-059-00	METAL CHIP	2.7K 5% 1/10W
R717	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R761	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R718	1-216-049-00	METAL CHIP	1K 5% 1/10W	R762	1-216-081-00	METAL CHIP	22K 5% 1/10W
R720	1-216-047-00	METAL CHIP	820 5% 1/10W	R763	1-216-073-00	METAL CHIP	10K 5% 1/10W
R721	1-216-044-00	METAL CHIP	620 5% 1/10W	R764	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R722	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R765	1-216-041-00	METAL CHIP	470 5% 1/10W
R723	1-216-295-00	METAL CHIP	0 5% 1/10W	R767	1-216-057-00	METAL CHIP	2.2K 5% 1/10W
R724	1-216-075-00	METAL CHIP	12K 5% 1/10W	R768	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R725	1-216-085-00	METAL CHIP	33K 5% 1/10W	R769	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R726	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R770	1-216-073-00	METAL CHIP	10K 5% 1/10W
R727	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R771	1-216-071-00	METAL CHIP	8.2K 5% 1/10W
R728	1-216-635-11	METAL CHIP	220 0.5% 1/10W	R772	1-216-073-00	METAL CHIP	10K 5% 1/10W
R729	1-216-049-00	METAL CHIP	1K 5% 1/10W	R773	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R730	1-216-047-00	METAL CHIP	820 5% 1/10W	R774	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R732	1-216-041-00	METAL CHIP	470 5% 1/10W	R775	1-216-081-00	METAL CHIP	22K 5% 1/10W
R733	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R776	1-216-075-00	METAL CHIP	12K 5% 1/10W
R734	1-216-041-00	METAL CHIP	470 5% 1/10W	R777	1-216-049-00	METAL CHIP	1K 5% 1/10W
R735	1-216-295-00	METAL CHIP	0 5% 1/10W	R778	1-216-033-00	METAL CHIP	220 5% 1/10W
R736	1-216-041-00	METAL CHIP	470 5% 1/10W	R779	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R737	1-216-035-00	METAL CHIP	270 5% 1/10W	R780	1-216-049-00	METAL CHIP	1K 5% 1/10W
R738	1-216-049-00	METAL CHIP	1K 5% 1/10W	R781	1-216-081-00	METAL CHIP	22K 5% 1/10W
R739	1-216-049-00	METAL CHIP	1K 5% 1/10W	R782	1-216-075-00	METAL CHIP	12K 5% 1/10W
R740	1-216-295-00	METAL CHIP	0 5% 1/10W	R783	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R741	1-216-047-00	METAL CHIP	820 5% 1/10W	R784	1-216-081-00	METAL CHIP	22K 5% 1/10W
R742	1-216-043-00	METAL CHIP	560 5% 1/10W	R785	1-216-075-00	METAL CHIP	12K 5% 1/10W
R743	1-216-049-00	METAL CHIP	1K 5% 1/10W	R786	1-216-049-00	METAL CHIP	1K 5% 1/10W
R744	1-216-081-00	METAL CHIP	22K 5% 1/10W	R787	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R745	1-216-075-00	METAL CHIP	12K 5% 1/10W	R788	1-216-737-11	METAL GLAZE	1K 1% 1/10W
R746	1-216-045-00	METAL CHIP	880 5% 1/10W	R789	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R747	1-216-043-00	METAL CHIP	560 5% 1/10W	R790	1-216-033-00	METAL CHIP	220 5% 1/10W
R748	1-216-049-00	METAL CHIP	1K 5% 1/10W	R793	1-216-295-00	METAL CHIP	0 5% 1/10W
R749	1-216-045-00	METAL CHIP	880 5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
(CONNECTOR)				O608	8-729-901-01	TRANSISTOR DTC144EK	
CN601	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P		O609	8-729-901-06	TRANSISTOR DTA144EK	
CN602	1-566-944-11	CONNECTOR, BOARD TO BOARD 22P		O671	8-729-100-66	TRANSISTOR 2SC1623	
CN603	1-506-467-11	CONNECTOR 2P, MALE		(RESISTOR)			
CN605	1-506-473-11	CONNECTOR 8P, MALE		R601	1-216-089-00	METAL CHIP 47K 5% 1/10W	
CN606	1-506-470-11	CONNECTOR 5P, MALE		R602	1-216-089-00	METAL CHIP 47K 5% 1/10W	
CN923	1-506-474-11	CONNECTOR 9P, MALE		R603	1-216-097-00	METAL CHIP 100K 5% 1/10W	
CN924	1-506-473-11	CONNECTOR 8P, MALE		R604	1-216-073-00	METAL CHIP 10K 5% 1/10W	
(DIODE)				R611	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D601	8-719-104-34	DIODE 1S2836		R612	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D602	8-719-104-34	DIODE 1S2836		R613	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D603	8-719-104-34	DIODE 1S2836		R614	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D604	8-719-400-18	DIODE MA152WK		R615	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D641	8-719-800-76	DIODE 1SS226		R616	1-216-081-00	METAL CHIP 22K 5% 1/10W	
D642	8-719-800-76	DIODE 1SS226		R617	1-216-081-00	METAL CHIP 22K 5% 1/10W	
(IC)				R618	1-216-079-00	METAL CHIP 18K 5% 1/10W	
IC601	8-759-149-34	IC μ PD75106G-591-1B		R619	1-216-081-00	METAL CHIP 22K 5% 1/10W	
IC603	8-759-300-71	IC TC4053BFBH		R625	1-216-041-00	METAL CHIP 470 5% 1/10W	
IC651	8-759-603-27	IC M5201FP		R626	1-216-089-00	METAL CHIP 47K 5% 1/10W	
IC661	8-759-603-27	IC M5201FP		R627	1-216-089-00	METAL CHIP 47K 5% 1/10W	
IC671	8-741-150-50	IC SBX1505		R628	1-216-089-00	METAL CHIP 47K 5% 1/10W	
(COIL)				R629	1-216-073-00	METAL CHIP 10K 5% 1/10W	
L601	1-408-970-21	INDUCTOR 10 μ H		R630	1-216-089-00	METAL CHIP 47K 5% 1/10W	
L602	1-408-970-21	INDUCTOR 10 μ H		R631	1-216-089-00	METAL CHIP 47K 5% 1/10W	
L603	1-408-970-21	INDUCTOR 10 μ H		R632	1-216-041-00	METAL CHIP 470 5% 1/10W	
L604	1-408-948-00	INDUCTOR 220 μ H		R633	1-216-089-00	METAL CHIP 47K 5% 1/10W	
L605	1-408-948-00	INDUCTOR 220 μ H		R634	1-216-097-00	METAL CHIP 100K 5% 1/10W	
L641	1-410-393-11	INDUCTOR CHIP 100 μ H		R635	1-216-049-00	METAL CHIP 1K 5% 1/10W	
L671	1-408-948-00	INDUCTOR 220 μ H		R636	1-216-049-00	METAL CHIP 1K 5% 1/10W	
(TRANSISTOR)				R637	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q601	8-729-901-06	TRANSISTOR DTA144EK		R638	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q602	8-729-901-01	TRANSISTOR DTC144EK		R639	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q603	8-729-901-01	TRANSISTOR DTC144EK		R641	1-216-072-00	METAL CHIP 9.1K 5% 1/10W	
Q604	8-729-901-01	TRANSISTOR DTC144EK		R642	1-216-081-00	METAL CHIP 22K 5% 1/10W	
Q605	8-729-901-06	TRANSISTOR DTA144EK		R643	1-216-089-00	METAL CHIP 47K 5% 1/10W	
Q606	8-729-901-06	TRANSISTOR DTA144EK		R644	1-216-099-00	METAL CHIP 120K 5% 1/10W	
Q607	8-729-901-01	TRANSISTOR DTC144EK		R645	1-216-072-00	METAL CHIP 9.1K 5% 1/10W	
				R646	1-216-081-00	METAL CHIP 22K 5% 1/10W	
				R647	1-216-089-00	METAL CHIP 47K 5% 1/10W	
				R648	1-216-099-00	METAL CHIP 120K 5% 1/10W	
				R649	1-216-061-00	METAL CHIP 3.3K 5% 1/10W	

JB-4

JB-5

LD-1

LS-9

MB-19

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C504	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V			LS-9 BOARD, COMPLETE *****	
*****						1-506-485-11 CONNECTOR 6P, MALE	
* 1-633-697-11 JB-5 BOARD *****				*****			
		(CAPACITOR)				* A-7062-565-A MB-19 BOARD, COMPLETE *****	
C301	1-163-035-00	CERAMIC CHIP	0.047uF 50V			* 4-911-047-01 VIBRATION CONTROL (D)	
C302	1-124-584-00	ELECT	100uF 20% 10V			(CAPACITOR)	
C303	1-163-009-11	CERAMIC CHIP	0.001uF 10% 50V				
		(CONNECTOR)					
CN301	1-506-470-11	CONNECTOR SP, MALE		C601	1-163-035-00	CERAMIC CHIP	0.047uF 50V
		(DIODE)		C602	1-163-035-00	CERAMIC CHIP	0.047uF 50V
D301	8-719-800-76	DIODE 1SS226		C603	1-163-093-00	CERAMIC CHIP	10PF 5% 50V
		(JACK)		C604	1-163-093-00	CERAMIC CHIP	10PF 5% 50V
J301	1-537-005-21	JACK BOARD (VIDEO/AUDIO/RFU DC OUT)		C605	1-163-035-00	CERAMIC CHIP	0.047uF 50V
		(TRANSISTOR)		C606	1-163-035-00	CERAMIC CHIP	0.047uF 50V
Q301	8-729-216-22	TRANSISTOR 2SA1162		C607	1-163-035-00	CERAMIC CHIP	0.047uF 50V
		(RESISTOR)		C608	1-163-035-00	CERAMIC CHIP	0.047uF 50V
R301	1-216-001-00	METAL CHIP	10 5% 1/10W	C609	1-124-234-00	ELECT	22uF 20% 16V
R302	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	C610	1-163-035-00	CERAMIC CHIP	0.047uF 50V
*****				C641	1-163-035-00	CERAMIC CHIP	0.047uF 50V
* A-7070-024-A LD-1 BOARD, COMPLETE *****				C651	1-163-141-00	CERAMIC CHIP	0.001uF 5% 50V
* 1-613-367-11 LD-1 BOARD				C652	1-124-234-00	ELECT	22uF 20% 16V
		(DIODE)		C653	1-163-035-00	CERAMIC CHIP	0.047uF 50V
D901	8-719-928-54	DIODE GL-450S		C661	1-163-141-00	CERAMIC CHIP	0.001uF 5% 50V
*****				C662	1-124-234-00	ELECT	22uF 20% 16V
				C663	1-163-035-00	CERAMIC CHIP	0.047uF 50V
				C671	1-124-584-00	ELECT	100uF 20% 10V
				C672	1-135-091-00	TANTALUM CHIP	1uF 20% 16V
				C673	1-124-584-00	ELECT	100uF 20% 10V
				C674	1-164-232-11	CERAMIC CHIP	0.01uF 50V
				C675	1-163-019-00	CERAMIC CHIP	0.0068uF 10% 50V
				C676	1-124-584-00	ELECT	100uF 20% 10V
				C677	1-163-038-00	CERAMIC CHIP	0.1uF 25V
				C678	1-124-584-00	ELECT	100uF 20% 10V
				C679	1-164-232-11	CERAMIC CHIP	0.01uF 50V
				C680	1-135-155-21	TANTALUM CHIP	4.7uF 10% 10V
				C681	1-124-584-00	ELECT	100uF 20% 10V
				C682	1-135-157-21	TANTALUM CHIP	10uF 20% 6.3V
				C683	1-164-232-11	CERAMIC CHIP	0.01uF 50V

MD-23

Ref. No.	Part No.	Description	Remark
C824	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C825	1-126-162-11	ELECT 3.3uF	20% 50V
C833	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C834	1-163-017-00	CERAMIC CHIP 0.0047uF	5% 50V
C835	1-126-501-11	ELECT 0.15uF	20% 50V
C836	1-164-157-11	CERAMIC CHIP 0.068uF	10% 25V
C837	1-124-464-11	ELECT 0.22uF	20% 50V
C838	1-124-589-11	ELECT 47uF	20% 16V
C839	1-126-529-11	ELECT 0.47uF	20% 50V
C840	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C841	1-124-589-11	ELECT 47uF	20% 16V
C901	1-124-234-00	ELECT 22uF	20% 16V
C902	1-124-234-00	ELECT 22uF	20% 16V
C903	1-124-234-00	ELECT 22uF	20% 16V
C904	1-124-234-00	ELECT 22uF	20% 16V
C905	1-124-257-00	ELECT 2.2uF	20% 50V
C906	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C907	1-163-038-00	CERAMIC CHIP 0.1uF	25V
C908	1-126-096-11	ELECT 10uF	20% 35V
C909	1-163-077-00	CERAMIC CHIP 0.1uF	10% 25V
C910	1-130-491-00	MYLAR 0.047uF	5% 50V
C911	1-130-491-00	MYLAR 0.047uF	5% 50V
C912	1-130-483-00	MYLAR 0.01uF	5% 50V
C913	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C914	1-124-589-11	ELECT 47uF	20% 16V
C915	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C916	1-126-530-11	ELECT 22uF	20% 10V
C917	1-126-530-11	ELECT 22uF	20% 10V
C918	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C919	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C950	1-164-157-11	CERAMIC CHIP 0.068uF	10% 25V
C991	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C992	1-163-035-00	CERAMIC CHIP 0.047uF	50V
C993	1-164-232-11	CERAMIC CHIP 0.01uF	50V

< CONNECTOR >

CN801	1-506-483-21	CONNECTOR 4P, MALE
CN803	1-506-481-11	CONNECTOR 2P, MALE
CN804	1-506-484-11	CONNECTOR 5P, MALE
CN805	1-506-469-11	CONNECTOR 4P, MALE
CN806	1-506-469-11	CONNECTOR 4P, MALE

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
CN807	1-566-527-11	CONNECTOR, FPC (ZIF) 11P	
CN808	1-566-531-11	CONNECTOR, FPC (ZIF) 15P	
CN809	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P	
CN810	1-566-946-11	CONNECTOR, BOARD TO BOARD 22P	
CN811	* 1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CN812	1-566-942-11	CONNECTOR, HINGE (RECEPTACLE) 30P	
CN814	* 1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	

< DIODE >

D803	8-719-200-27	DIODE E10DS2
D810	8-719-400-18	DIODE MA152WK
D811	8-719-200-27	DIODE E10DS2
D901	8-719-400-18	DIODE MA152WK
D902	8-719-400-18	DIODE MA152WK
D903	8-719-400-18	DIODE MA152WK
D904	8-719-800-76	DIODE 1SS226
D905	8-719-400-18	DIODE MA152WK

< IC >

IC801	8-752-037-08	IC CXA1109M
IC802	8-759-802-79	IC LB1616M
IC804	8-759-514-98	IC RC3414M
IC805	8-759-100-93	IC uPC393G2
IC806	8-759-207-00	IC TA7733F
IC807	8-759-107-68	IC CX20115A
IC808	8-759-700-62	IC NJM4562M
IC809	8-759-100-94	IC uPC358G2
IC901	8-759-207-50	IC TA7745F
IC902	8-759-150-05	IC uPC324G2
IC903	8-759-925-66	IC BA6303F
IC904	8-759-008-67	IC TC4066BF

< COIL >

L991	1-408-777-00	INDUCTOR CHIP 10uH
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< LINK IC >

PS801	△ 1-532-685-00	LINK, IC (0.8A/125V)
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< TRANSISTOR >

Q806	8-729-111-14	TRANSISTOR 2SA1385-Z
Q807	8-729-901-06	TRANSISTOR DTA144EX

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R651	1-216-093-00	METAL CHIP	68K 5% 1/10W	S648	1-570-909-21	SWITCH, TACTIL (REFLOW TYPE) (POWER)	
R652	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	S649	1-554-371-51	SWITCH, TACT (X-1)	
R653	1-216-093-00	METAL CHIP	68K 5% 1/10W			(FILTER)	
R654	1-216-047-00	METAL CHIP	820 5% 1/10W	T603	1-235-398-11	BPF	
R655	1-216-051-00	METAL CHIP	1.2K 5% 1/10W	T651	1-235-900-11	FILTER, LOW PASS	
R656	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	T661	1-235-900-11	FILTER, LOW PASS	
R657	1-216-089-00	METAL CHIP	47K 5% 1/10W			(CRYSTAL)	
R661	1-216-093-00	METAL CHIP	68K 5% 1/10W	X601	1-567-121-00	VIBRATOR, CRYSTAL (4.19MHz)	
R662	1-216-065-00	METAL CHIP	4.7K 5% 1/10W			*****	
R663	1-216-093-00	METAL CHIP	68K 5% 1/10W			* A-7061-819-A MD-23 BOARD, COMPLETE	
R664	1-216-047-00	METAL CHIP	820 5% 1/10W			*****	
R665	1-216-051-00	METAL CHIP	1.2K 5% 1/10W			1-625-649-11 FP-84 FLEXIBLE BOARD	
R666	1-216-057-00	METAL CHIP	2.2K 5% 1/10W			1-625-650-11 FP-122 FLEXIBLE BOARD	
R667	1-216-089-00	METAL CHIP	47K 5% 1/10W			(CAPACITOR)	
R671	1-216-295-00	METAL CHIP	0 5% 1/10W	C801	1-124-465-00	ELECT	0.47uF 20% 50V
R672	1-216-077-00	METAL CHIP	15K 5% 1/10W	C802	1-124-464-11	ELECT	0.22uF 20% 50V
R673	1-216-052-00	METAL CHIP	1.3K 5% 1/10W	C803	1-163-038-00	CERAMIC CHIP	0.1uF 25V
R674	1-216-077-00	METAL CHIP	15K 5% 1/10W	C804	1-126-160-11	ELECT	1uF 20% 50V
R675	1-216-057-00	METAL CHIP	2.2K 5% 1/10W	C805	1-163-038-00	CERAMIC CHIP	0.1uF 25V
R676	1-216-045-00	METAL CHIP	680 5% 1/10W	C806	1-126-151-11	ELECT, NONPOLAR	4.7uF 20% 16V
R677	1-216-075-00	METAL CHIP	12K 5% 1/10W	C808	1-126-162-11	ELECT	3.3uF 20% 50V
R678	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	C809	1-124-584-00	ELECT	100uF 20% 10V
R679	1-216-053-00	METAL CHIP	1.5K 5% 1/10W	C810	1-126-096-11	ELECT	10uF 20% 35V
R680	1-216-049-00	METAL CHIP	1K 5% 1/10W	C811	1-126-096-11	ELECT	10uF 20% 35V
R681	1-216-089-00	METAL CHIP	47K 5% 1/10W	C812	1-126-096-11	ELECT	10uF 20% 35V
R682	1-216-097-00	METAL CHIP	100K 5% 1/10W	C813	1-126-160-11	ELECT	1uF 20% 50V
R683	1-216-089-00	METAL CHIP	47K 5% 1/10W	C814	1-126-160-11	ELECT	1uF 20% 50V
		(VARIABLE RESISTOR)		C815	1-126-160-11	ELECT	1uF 20% 50V
RV031	1-230-521-11	RES, ADJ, METAL 2.2K		C816	1-124-229-00	ELECT	33uF 20% 10V
RV032	1-230-529-11	RES, ADJ, METAL 470K		C817	1-124-229-00	ELECT	33uF 20% 10V
RV051	1-230-524-11	RES, ADJ, METAL 22K		C818	1-124-229-00	ELECT	33uF 20% 10V
RV052	1-230-521-11	RES, ADJ, METAL 2.2K		C819	1-163-038-00	CERAMIC CHIP	0.1uF 25V
		(SWITCH)		C820	1-163-038-00	CERAMIC CHIP	0.1uF 25V
S641	1-554-371-51	SWITCH, TACT (EJECT)		C821	1-164-232-11	CERAMIC CHIP	0.01uF 50V
S642	1-554-371-51	SWITCH, TACT (PB)		C822	1-164-232-11	CERAMIC CHIP	0.01uF 50V
S643	1-554-371-51	SWITCH, TACT (PAUSE)		C823	1-163-038-00	CERAMIC CHIP	0.1uF 25V
S644	1-554-371-51	SWITCH, TACT (REW)					
S645	1-554-371-51	SWITCH, TACT (STOP)					
S646	1-554-371-51	SWITCH, TACT (REC)					
S647	1-554-371-51	SWITCH, TACT (FF)					

MD-23

MJ-25

MS-4

PA-27

Ref. No.	Part No.	Description
R912	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R913	1-216-059-00	METAL CHIP 2.7K 5% 1/10W
R916	1-216-073-00	METAL CHIP 10K 5% 1/10W
R917	1-216-073-00	METAL CHIP 10K 5% 1/10W
R918	1-216-073-00	METAL CHIP 10K 5% 1/10W
R919	1-216-073-00	METAL CHIP 10K 5% 1/10W
R920	1-216-077-00	METAL CHIP 15K 5% 1/10W
R921	1-216-083-00	METAL CHIP 27K 5% 1/10W
R922	1-216-085-00	METAL CHIP 33K 5% 1/10W
R923	1-216-748-11	METAL CHIP 39K 5% 1/10W
R924	1-216-089-00	METAL CHIP 47K 5% 1/10W
R925	1-216-089-00	METAL CHIP 47K 5% 1/10W
R926	1-216-109-00	METAL CHIP 330K 5% 1/10W
R927	1-216-117-00	METAL CHIP 680K 5% 1/10W
R928	1-216-073-00	METAL CHIP 10K 5% 1/10W
R929	1-216-053-00	METAL CHIP 1.5K 5% 1/10W
R951	1-216-069-00	METAL CHIP 6.8K 5% 1/10W
R952	1-216-063-00	METAL CHIP 3.9K 5% 1/10W
R953	1-214-972-00	METAL 0.22 1% 1/4W
R955	1-216-079-00	METAL CHIP 18K 5% 1/10W
R991	1-216-073-00	METAL CHIP 10K 5% 1/10W
R992	1-216-073-00	METAL CHIP 10K 5% 1/10W
R993	1-216-049-00	METAL CHIP 1K 5% 1/10W
R994	1-216-295-00	METAL CHIP 0 5% 1/10W
R996	1-216-049-00	METAL CHIP 1K 5% 1/10W
R997	1-216-049-00	METAL CHIP 1K 5% 1/10W
R998	1-216-049-00	METAL CHIP 1K 5% 1/10W

(VARIABLE RESISTOR)

RV801	1-230-520-11	RES. ADJ. METAL 1K
RV802	1-230-523-11	RES. ADJ. METAL 10K
RV803	1-230-527-11	RES. ADJ. METAL 100K
RV901	1-230-529-11	RES. ADJ. METAL 470K

(THERMISTOR)

THP801	1-202-854-00	THERMISTOR (POSITIVE)
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(CONNECTOR)

W801	1-562-880-11	CONNECTOR, CARD EDGE 15P
W901	1-562-880-11	CONNECTOR, CARD EDGE 15P

Remark	Ref. No.	Part No.	Description	Remark

			* 1-633-698-11 MJ-25 BOARD	

			(CAPACITOR)	
	C601	1-163-038-00	CERAMIC CHIP 0.1uF	25V
			(CONNECTOR)	
	CN601	1-506-468-11	CONNECTOR 3P, MALE	
			(DIODE)	
	D601	8-719-106-80	DIODE RD13M-B1	
			(JACK)	
	J601	1-507-995-21	JACK, MICROPHONE (MIC/Ⓢ)	

			A-7040-159-A MS-4 BOARD, COMPLETE	

			1-163-038-00 CERAMIC CHIP 0.1uF	25V
			1-506-485-11 CONNECTOR 6P, MALE	

			* A-7061-826-A PA-27 BOARD, COMPLETE	

			(CAPACITOR)	
	C001	1-163-012-00	CERAMIC CHIP 0.0018uF	10% 50V
	C002	1-124-584-00	ELECT 100uF	20% 10V
	C003	1-126-154-11	ELECT 47uF	20% 6.3V
	C004	1-126-154-11	ELECT 47uF	20% 6.3V
	C005	1-130-490-11	MYLAR 0.039uF	5% 50V
	C006	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
	C007	1-130-479-00	MYLAR 0.0047uF	5% 50V
	C008	1-126-154-11	ELECT 47uF	20% 6.3V
	C009	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
	C010	1-126-154-11	ELECT 47uF	20% 6.3V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q809	8-729-111-95	TRANSISTOR 2SC3518		R835	1-216-049-00	METAL CHIP 1K 5% 1/10W	
Q810	8-729-805-25	TRANSISTOR 2SB1121		R840	1-216-107-00	METAL CHIP 270K 5% 1/10W	
Q811	8-729-805-25	TRANSISTOR 2SB1121		R841	1-216-073-00	METAL CHIP 10K 5% 1/10W	
				R842	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q812	8-729-111-14	TRANSISTOR 2SA1385-Z		R843	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q813	8-729-100-66	TRANSISTOR 2SC1623					
Q820	8-729-111-95	TRANSISTOR 2SC3518		R844	1-216-107-00	METAL CHIP 270K 5% 1/10W	
Q821	8-729-100-66	TRANSISTOR 2SC1623		R845	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q880	8-729-100-66	TRANSISTOR 2SC1623		R846	1-216-107-00	METAL CHIP 270K 5% 1/10W	
				R847	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q901	8-729-920-82	TRANSISTOR 2SB1188-OR		R848	1-216-107-00	METAL CHIP 270K 5% 1/10W	
Q902	8-729-920-82	TRANSISTOR 2SB1188-OR					
Q903	8-729-920-82	TRANSISTOR 2SB1188-OR		R849	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q904	8-729-901-06	TRANSISTOR DTA144EK		R852	1-216-081-00	METAL CHIP 22K 5% 1/10W	
Q905	8-729-901-06	TRANSISTOR DTA144EK		R860	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
				R861	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
Q906	8-729-901-01	TRANSISTOR DTC144EK		R864	1-216-033-00	METAL CHIP 220 5% 1/10W	
Q907	8-729-901-01	TRANSISTOR DTC144EK					
Q908	8-729-901-01	TRANSISTOR DTC144EK		R870	1-216-113-00	METAL CHIP 470K 5% 1/10W	
Q909	8-729-901-06	TRANSISTOR DTA144EK		R885	1-216-073-00	METAL CHIP 10K 5% 1/10W	
Q950	8-729-903-97	TRANSISTOR FMS1FE		R886	1-216-073-00	METAL CHIP 10K 5% 1/10W	
				R887	1-216-049-00	METAL CHIP 1K 5% 1/10W	
Q990	8-729-100-66	TRANSISTOR 2SC1623		R888	1-216-049-00	METAL CHIP 1K 5% 1/10W	
		(RESISTOR)					
R801	1-216-105-00	METAL CHIP 220K 5% 1/10W		R890	1-216-681-11	METAL CHIP 18K 0.5% 1/10W	
R802	1-216-105-00	METAL CHIP 220K 5% 1/10W		R891	1-216-681-11	METAL CHIP 18K 0.5% 1/10W	
R803	1-216-097-00	METAL CHIP 100K 5% 1/10W		R892	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R804	1-216-097-00	METAL CHIP 100K 5% 1/10W		R893	1-216-077-00	METAL CHIP 15K 5% 1/10W	
R805	1-216-085-00	METAL CHIP 33K 5% 1/10W		R894	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R806	1-216-065-00	METAL CHIP 4.7K 5% 1/10W		R895	1-216-113-00	METAL CHIP 470K 5% 1/10W	
R807	1-216-049-00	METAL CHIP 1K 5% 1/10W		R896	1-216-025-00	METAL CHIP 100 5% 1/10W	
R810	1-216-051-00	METAL CHIP 1.2K 5% 1/10W		R897	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R811	1-216-051-00	METAL CHIP 1.2K 5% 1/10W		R898	1-216-025-00	METAL CHIP 100 5% 1/10W	
R818	1-216-059-00	METAL CHIP 2.7K 5% 1/10W		R899	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R819	1-216-113-00	METAL CHIP 470K 5% 1/10W		R900	1-216-097-00	METAL CHIP 100K 5% 1/10W	
R820	1-216-025-00	METAL CHIP 100 5% 1/10W		R901	1-216-035-00	METAL CHIP 270 5% 1/10W	
R823	1-216-025-00	METAL CHIP 100 5% 1/10W		R902	1-216-035-00	METAL CHIP 270 5% 1/10W	
R824	1-216-081-00	METAL CHIP 22K 5% 1/10W		R903	1-216-035-00	METAL CHIP 270 5% 1/10W	
R826	1-216-073-00	METAL CHIP 10K 5% 1/10W		R904	1-216-049-00	METAL CHIP 1K 5% 1/10W	
R830	1-216-101-00	METAL CHIP 150K 5% 1/10W		R905	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R831	1-216-049-00	METAL CHIP 1K 5% 1/10W		R906	1-216-057-00	METAL CHIP 2.2K 5% 1/10W	
R832	1-216-304-11	METAL CHIP 3.3 5% 1/10W		R907	1-216-069-00	METAL CHIP 6.8K 5% 1/10W	
R833	1-216-304-11	METAL CHIP 3.3 5% 1/10W		R908	1-216-027-00	METAL CHIP 120 5% 1/10W	
R834	1-216-304-11	METAL CHIP 3.3 5% 1/10W		R909	1-216-027-00	METAL CHIP 120 5% 1/10W	
				R910	1-216-073-00	METAL CHIP 10K 5% 1/10W	
				R911	1-216-113-00	METAL CHIP 470K 5% 1/10W	

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Ref. No.	Part No.	Description			
R013	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R014	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R015	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R016	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R017	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R018	1-216-748-11	METAL CHIP	39K	5%	1/10W
R019	1-216-077-00	METAL CHIP	15K	5%	1/10W
R020	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R021	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R022	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R023	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R024	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R031	1-216-117-00	METAL CHIP	680K	5%	1/10W
R032	1-216-700-11	METAL CHIP	470K	1%	1/10W
R033	1-216-022-00	METAL CHIP	75	5%	1/10W
R034	1-216-039-00	METAL CHIP	390	5%	1/10W
R035	1-216-049-00	METAL CHIP	1K	5%	1/10W
R036	1-216-653-11	METAL CHIP	1.2K	0.5%	1/10W
R037	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R039	1-215-401-11	METAL	150	1%	1/6W
R040	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R041	1-216-295-00	METAL CHIP	0	5%	1/10W
R042	1-216-073-00	METAL CHIP	10K	5%	1/10W
R043	1-216-097-00	METAL CHIP	100K	5%	1/10W
R051	1-216-043-00	METAL CHIP	560	5%	1/10W
R052	1-216-078-00	METAL GLAZE	16K	5%	1/10W
R053	1-216-072-00	METAL CHIP	9.1K	5%	1/10W
R054	1-216-089-00	METAL CHIP	47K	5%	1/10W
R055	1-216-073-00	METAL CHIP	10K	5%	1/10W
R056	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R057	1-216-073-00	METAL CHIP	10K	5%	1/10W
R058	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R059	1-216-045-00	METAL CHIP	680	5%	1/10W
R060	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R062	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R063	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R064	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R065	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R066	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R067	1-216-058-00	METAL GLAZE	2.4K	5%	1/10W
R068	1-216-748-11	METAL CHIP	39K	5%	1/10W
R069	1-216-077-00	METAL CHIP	15K	5%	1/10W

Ref. No.	Part No.	Description				Remark
R070	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R071	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R072	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R073	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R074	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
(VARIABLE RESISTOR)						
RV001	1-230-524-11	RES. ADJ. METAL 22K				
RV002	1-230-521-11	RES. ADJ. METAL 2.2K				

* A-7061-825-A PD-19 BOARD, COMPLETE						

(CAPACITOR)						
C851	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C852	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C853	1-164-232-11	CERAMIC CHIP	0.01uF			50V
C854	1-163-235-11	CERAMIC CHIP	22PF		5%	50V
C856	1-135-156-21	TANTALUM CHIP	6.8uF		10%	6.3V
C857	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C858	1-135-145-11	TANTALUM CHIP	0.47uF		10%	25V
C859	1-135-180-21	TANTALUM CHIP	3.3uF		20%	6.3V
C860	1-135-156-21	TANTALUM CHIP	6.8uF		10%	6.3V
C861	1-163-235-11	CERAMIC CHIP	22PF		5%	50V
C862	1-163-085-00	CERAMIC CHIP	2PF			50V
C863	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C864	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C867	1-164-232-11	CERAMIC CHIP	0.01uF			50V
C868	1-163-099-00	CERAMIC CHIP	18PF		5%	50V
C869	1-163-235-11	CERAMIC CHIP	22PF		5%	50V
C870	1-163-109-00	CERAMIC CHIP	47PF		5%	50V
C871	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C872	1-135-156-21	TANTALUM CHIP	6.8uF		10%	6.3V
C873	1-135-156-21	TANTALUM CHIP	6.8uF		10%	6.3V
C874	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C875	1-164-232-11	CERAMIC CHIP	0.01uF			50V
C876	1-163-005-11	CERAMIC CHIP	470PF		10%	50V
C877	1-163-035-00	CERAMIC CHIP	0.047uF			50V
C878	1-135-156-21	TANTALUM CHIP	6.8uF		10%	6.3V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C011	1-130-469-00	MYLAR	680PF	5%	50V	< CONNECTOR >	
C012	1-130-482-00	MYLAR	0.0082uF	5%	50V		
C013	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V		
C014	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V		
C015	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V		
C016	1-126-153-11	ELECT	22uF	20%	6.3V	< DIODE >	
C017	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		
C018	1-126-153-11	ELECT	22uF	20%	6.3V		
C019	1-126-153-11	ELECT	22uF	20%	6.3V		
C031	1-124-584-00	ELECT	100uF	20%	10V		
C032	1-124-584-00	ELECT	100uF	20%	10V	< IC >	
C033	1-163-035-00	CERAMIC CHIP	0.047uF		50V		
C034	1-126-154-11	ELECT	47uF	20%	6.3V		
C035	1-126-154-11	ELECT	47uF	20%	6.3V		
C036	1-163-035-00	CERAMIC CHIP	0.047uF		50V		
C037	1-126-154-11	ELECT	47uF	20%	6.3V	< COIL >	
C038	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V		
C039	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C040	1-164-232-11	CERAMIC CHIP	0.01uF		50V		
C041	1-109-814-11	CAP. CHIP MICA	220PF				
C042	1-126-154-11	ELECT	47uF	20%	6.3V	< TRANSISTOR >	
C043	1-126-153-11	ELECT	22uF	20%	6.3V		
C044	1-126-154-11	ELECT	47uF	20%	6.3V		
C051	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V		
C052	1-124-584-00	ELECT	100uF	20%	10V		
C053	1-126-154-11	ELECT	47uF	20%	6.3V		
C054	1-126-154-11	ELECT	47uF	20%	6.3V		
C055	1-130-490-11	MYLAR	0.039uF	5%	50V		
C056	1-163-125-00	CERAMIC CHIP	220PF	5%	50V		
C057	1-130-479-00	MYLAR	0.0047uF	5%	50V		
C058	1-126-154-11	ELECT	47uF	20%	6.3V	< RESISTOR >	
C059	1-163-097-00	CERAMIC CHIP	15PF	5%	50V		
C060	1-126-154-11	ELECT	47uF	20%	6.3V		
C061	1-130-469-00	MYLAR	680PF	5%	50V		
C062	1-130-482-00	MYLAR	0.0082uF	5%	50V		
C063	1-135-149-21	TANTALUM CHIP	2.2uF	20%	10V	R001	1-216-043-00 METAL CHIP 560 5% 1/10W
C064	1-135-156-21	TANTALUM CHIP	6.8uF	10%	6.3V	R002	1-216-078-00 METAL GLAZE 16K 5% 1/10W
C065	1-135-072-21	TANTALUM CHIP	0.22uF	10%	35V	R003	1-216-072-00 METAL CHIP 9.1K 5% 1/10W
C066	1-126-153-11	ELECT	22uF	20%	6.3V	R004	1-216-089-00 METAL CHIP 47K 5% 1/10W
C067	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	R005	1-216-073-00 METAL CHIP 10K 5% 1/10W
C068	1-126-153-11	ELECT	22uF	20%	6.3V	R006	1-216-065-00 METAL CHIP 4.7K 5% 1/10W
C069	1-126-153-11	ELECT	22uF	20%	6.3V	R007	1-216-073-00 METAL CHIP 10K 5% 1/10W
						R008	1-216-059-00 METAL CHIP 2.7K 5% 1/10W
						R009	1-216-045-00 METAL CHIP 680 5% 1/10W
						R010	1-216-057-00 METAL CHIP 2.2K 5% 1/10W
						R012	1-216-677-11 METAL CHIP 12K 0.5% 1/10W

PD-19 POWER BLOCK

Ref. No.	Part No.	Description	Remark
R886	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R887	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R888	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R889	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R890	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R891	1-216-295-00	METAL CHIP 0 5% 1/10W	
(VARIABLE RESISTOR)			
RV851	1-230-869-11	RES, ADJ, METAL 4.7K	
RV854	1-230-868-11	RES, ADJ, METAL 2.2K	
(CRYSTAL)			
X851	1-567-669-91	VIBRATOR, LITHIUM TANTALATE	
X852	1-567-346-11	OSCILLATOR, CERAMIC (5MHz)	

△ 1-413-519-11 POWER BLOCK			

9-993-721-01 POWER BOARD			
(CAPACITOR)			
C101	△ 9-993-698-01	FILM 0.1MF 125V	
C102	△ 9-993-699-01	FILM 0.0022MF 125V	
C103	△ 9-993-699-01	FILM 0.0022MF 125V	
C104	9-993-700-01	FILM 220MF 200V	
C105	1-136-187-21	FILM 0.047MF 250V	
C106	9-993-701-01	FILM 0.001MF 1KV	
C107	1-130-491-11	MYLAR 0.047MF 50V	
C108	1-130-487-11	MYLAR 0.022MF 50V	
C109	1-130-491-11	MYLAR 0.047MF 50V	
C110	1-130-495-11	MYLAR 0.1MF 50V	
C111	△ 9-993-699-01	MYLAR 0.0047MF 125V	
C112	△ 9-993-699-01	MYLAR 0.0047MF 125V	
C201	9-993-702-01	ELECT 2200MF 25V	
C202	1-124-126-11	ELECT 47MF 25V	
C203	1-123-875-11	ELECT 10MF 50V	
C204	9-993-705-01	ELECT 1000MF 16V	
C205	9-993-705-01	ELECT 1000MF 16V	
C206	9-993-703-01	ELECT 3900MF 10V	
C207	9-993-703-01	ELECT 3900MF 10V	

Ref. No.	Part No.	Description	Remark
C208	1-123-875-11	ELECT 10MF 50V	
C209	9-993-704-01	ELECT 1500MF 10V	
C210	9-993-704-01	ELECT 1500MF 10V	
C211	△ 9-993-706-01	ELECT 1MF 50V	
C212	△ 9-993-704-01	ELECT 1500MF 10V	
C213	1-124-787-11	ELECT 47MF 35V	
C214	1-123-875-11	ELECT 10MF 50V	
C215	1-123-875-11	ELECT 10MF 50V	
C216	1-130-483-11	MYLAR 0.01MF 50V	
C217	1-130-483-11	MYLAR 0.01MF 50V	
C218	9-993-704-01	ELECT 1500MF 10V	
C219	1-136-283-21	FILM 0.1MF 63V	
C220	9-993-206-01	ELECT 1MF 50V	
(DIODE)			
D101	△ 8-719-500-04	DIODE S1WB40	
D102	9-993-709-01	DIODE SM-1FX08	
D103	9-993-710-01	DIODE 1SS144	
D104	9-993-711-01	DIODE DS442	
D105	9-993-711-01	DIODE DS442	
D201	8-719-907-40	DIODE ERB43-02	
D202	9-993-712-01	DIODE F10P040	
D203	9-993-712-01	DIODE F10P040	
D204	8-719-200-29	DIODE 11D004	
D205	8-719-907-40	DIODE ERB43-02	
D206	8-719-200-82	DIODE 11ES2	
D207	8-719-200-82	DIODE 11ES2	
D208	8-719-200-82	DIODE 11ES2	
(FUSE)			
F101	△ 1-532-734-11	FUSE, GLASS TUBE (2A 125V)	
(IC)			
IC201	△ 8-759-605-43	IC M5231TL	
IC202	△ 8-759-605-43	IC M5231TL	
IC203	9-993-714-01	IC L5431	
IC204	9-993-707-01	IC 97L09A	
(COIL)			
L101	△ 9-993-715-01	COIL, CHOKE SUI6V-10060	
L201	9-993-716-01	COIL, CHOKE 5uH	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C879	1-163-035-00	CERAMIC CHIP 0.047uF	50V	L861	1-410-393-11	INDUCTOR CHIP 100uH	
C880	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V	L862	1-410-393-11	INDUCTOR CHIP 100uH	
C881	1-163-035-00	CERAMIC CHIP 0.047uF	50V				
C882	1-163-035-00	CERAMIC CHIP 0.047uF	50V				
C884	1-163-035-00	CERAMIC CHIP 0.047uF	50V			(TRANSISTOR)	
C885	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	Q851	8-729-102-07	TRANSISTOR 2SC2223	
C886	1-163-105-00	CERAMIC CHIP 33PF	5% 50V	Q852	8-729-122-63	TRANSISTOR 2SA1226	
C887	1-163-035-00	CERAMIC CHIP 0.047uF	50V	Q853	8-729-102-06	TRANSISTOR 2SC2223	
C888	1-163-035-00	CERAMIC CHIP 0.047uF	50V	Q853	8-729-102-07	TRANSISTOR 2SC2223	
C889	1-135-156-21	TANTALUM CHIP 6.8uF	10% 6.3V			(RESISTOR)	
		(CONNECTOR)		R851	1-216-073-00	METAL CHIP 10K 5%	1/10W
CN851	* 1-565-107-21	PIN, CONNECTOR (PC BOARD) 35P		R852	1-216-085-00	METAL CHIP 33K 5%	1/10W
CN852	* 1-565-107-21	PIN, CONNECTOR (PC BOARD) 35P		R853	1-216-033-00	METAL CHIP 220 5%	1/10W
CN853	1-506-777-11	CONNECTOR, BOARD TO BOARD 20P		R854	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
		(DIODE)		R855	1-216-081-00	METAL CHIP 22K 5%	1/10W
D851	8-719-104-34	DIODE 1S2836		R856	1-216-079-00	METAL CHIP 18K 5%	1/10W
D852	8-719-400-18	DIODE MA152WK		R857	1-216-077-00	METAL CHIP 15K 5%	1/10W
D853	8-719-400-18	DIODE MA152WK		R858	1-216-077-00	METAL CHIP 15K 5%	1/10W
		(IC)		R859	1-216-049-00	METAL CHIP 1K 5%	1/10W
IC851	8-752-324-45	IC CXD10680-Z		R860	1-216-071-00	METAL CHIP 8.2K 5%	1/10W
IC852	8-759-929-17	IC CXD1051M		R861	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
IC853	8-752-010-30	IC CX20103		R862	1-216-025-00	METAL CHIP 100 5%	1/10W
IC854	8-752-010-20	IC CX20102		R863	1-216-041-00	METAL CHIP 470 5%	1/10W
IC855	8-752-331-00	IC CXK5864BM-12L		R864	1-216-049-00	METAL CHIP 1K 5%	1/10W
				R866	1-216-041-00	METAL CHIP 470 5%	1/10W
IC856	8-759-948-61	IC CX23011-C		R867	1-216-295-00	METAL CHIP 0 5%	1/10W
IC857	8-759-911-19	IC CX23012		R868	1-216-295-00	METAL CHIP 0 5%	1/10W
IC858	8-759-972-12	IC CF77305FT		R869	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
IC859	8-752-809-68	IC CXP5024H-079Q		R870	1-216-049-00	METAL CHIP 1K 5%	1/10W
IC860	8-759-972-13	IC CF77309FR		R871	1-216-049-00	METAL CHIP 1K 5%	1/10W
		(COIL)		R872	1-216-049-00	METAL CHIP 1K 5%	1/10W
L851	1-410-393-11	INDUCTOR CHIP 100uH		R873	1-216-041-00	METAL CHIP 470 5%	1/10W
L852	1-410-393-11	INDUCTOR CHIP 100uH		R874	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
L853	1-410-393-11	INDUCTOR CHIP 100uH		R875	1-216-295-00	METAL CHIP 0 5%	1/10W
L855	1-410-393-11	INDUCTOR CHIP 100uH		R876	1-216-045-00	METAL CHIP 680 5%	1/10W
L856	1-410-393-11	INDUCTOR CHIP 100uH		R879	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
L857	1-410-393-11	INDUCTOR CHIP 100uH		R880	1-216-071-00	METAL CHIP 8.2K 5%	1/10W
L858	1-410-393-11	INDUCTOR CHIP 100uH		R881	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
L859	1-410-393-11	INDUCTOR CHIP 100uH		R882	1-216-043-00	METAL CHIP 560 5%	1/10W
L860	1-410-393-11	INDUCTOR CHIP 100uH		R883	1-216-073-00	METAL CHIP 10K 5%	1/10W
				R884	1-216-073-00	METAL CHIP 10K 5%	1/10W

RP-73 (LP)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C025	1-164-232-11	CERAMIC CHIP	0.01uF	50V		(TRANSISTOR)	
C027	1-135-091-00	TANTALUM CHIP	1uF	20%	16V		
C028	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	0002	8-729-102-07 TRANSISTOR 2SC2223-F13
C029	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	0003	8-729-102-07 TRANSISTOR 2SC2223-F13
C030	1-162-974-11	CERAMIC CHIP	0.01uF	50V			
						(RESISTOR)	
C031	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V		
C032	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	R001	1-216-089-00 METAL CHIP 47K 5% 1/10W
C033	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	R002	1-216-073-00 METAL CHIP 10K 5% 1/10W
C034	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V	R003	1-216-081-00 METAL CHIP 22K 5% 1/10W
C035	1-162-974-11	CERAMIC CHIP	0.01uF	50V		R004	1-216-055-00 METAL CHIP 1.8K 5% 1/10W
						R005	1-216-824-11 METAL CHIP 1.8K 5% 1/16W
C036	1-164-218-11	CERAMIC CHIP	180PF	0.25PF	50V	R006	1-216-081-00 METAL CHIP 22K 5% 1/10W
C037	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	R007	1-216-834-11 METAL CHIP 12K 5% 1/16W
C038	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	R008	1-216-835-11 METAL CHIP 15K 5% 1/16W
C039	1-162-912-11	CERAMIC CHIP	7PF	0.5PF	50V	R009	1-216-081-00 METAL CHIP 22K 5% 1/10W
C040	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V	R010	1-216-089-00 METAL CHIP 47K 5% 1/10W
C041	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V	R011	1-216-073-00 METAL CHIP 10K 5% 1/10W
C042	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V	R012	1-216-081-00 METAL CHIP 22K 5% 1/10W
C043	1-135-157-21	TANTALUM CHIP	10uF	20%	6.3V	R013	1-216-055-00 METAL CHIP 1.8K 5% 1/10W
C044	1-162-974-11	CERAMIC CHIP	0.01uF	50V		R014	1-216-824-11 METAL CHIP 1.8K 5% 1/16W
C045	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	R015	1-216-085-00 METAL CHIP 33K 5% 1/10W
C046	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	R016	1-216-081-00 METAL CHIP 22K 5% 1/10W
						R017	1-216-085-00 METAL CHIP 33K 5% 1/10W
		(DIODE)				R018	1-216-081-00 METAL CHIP 22K 5% 1/10W
D001	8-719-801-41	DIODE 1SS196				R019	1-216-089-00 METAL CHIP 47K 5% 1/10W
D002	8-719-801-41	DIODE 1SS196				R020	1-216-055-00 METAL CHIP 1.8K 5% 1/10W
		(IC)				R021	1-216-055-00 METAL CHIP 1.8K 5% 1/10W
IC001	8-752-033-00	IC CXA1234AR				R026	1-216-837-11 METAL CHIP 22K 5% 1/16W
						R027	1-216-833-11 METAL CHIP 10K 5% 1/16W
		(COIL)				R028	1-216-797-11 METAL CHIP 10 5% 1/16W
						R029	1-216-812-11 METAL CHIP 180 5% 1/16W
L001	1-410-385-11	INDUCTOR CHIP 22uH					
L002	1-410-656-11	INDUCTOR CHIP 150uH				R030	1-216-837-11 METAL CHIP 22K 5% 1/16W
L004	1-410-393-11	INDUCTOR CHIP 100uH				R031	1-216-833-11 METAL CHIP 10K 5% 1/16W
L005	1-410-381-11	INDUCTOR CHIP 10uH				R032	1-216-797-11 METAL CHIP 10 5% 1/16W
L007	1-410-393-11	INDUCTOR CHIP 100uH				R033	1-216-812-11 METAL CHIP 180 5% 1/16W
L008	1-410-384-31	INDUCTOR CHIP 18uH					(VARIABLE RESISTOR)
L009	1-410-384-31	INDUCTOR CHIP 18uH				RV001	1-230-871-11 RES. ADJ. METAL 22K
L031	1-408-777-00	INDUCTOR CHIP 10uH				RV002	1-230-871-11 RES. ADJ. METAL 22K
L041	1-408-793-21	INDUCTOR CHIP 220uH				RV003	1-230-869-11 RES. ADJ. METAL 4.7K
L042	1-408-777-00	INDUCTOR CHIP 10uH				RV004	1-230-869-11 RES. ADJ. METAL 4.7K
L051	1-408-785-21	INDUCTOR CHIP 47uH					

POWER BLOCK RP-73 (LP)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L202	9-993-716-01	COIL, CHOKE 5uH		R215	9-993-688-01	CARBON 2200	1/5W
L203	9-993-716-01	COIL, CHOKE 5uH		R216	9-993-681-01	CARBON 47	1/5W
L204	9-993-716-01	COIL, CHOKE 5uH					
(PHOTO COUPLER)				R217	9-993-694-01	CARBON 47K	1/5W
PC101	△ 8-719-902-56	PHOTO COUPLER PC-817		R218	9-993-694-01	CARBON 47K	1/5W
PC102	△ 8-719-902-56	PHOTO COUPLER PC-817		R221	9-993-682-01	CARBON 330	1/5W
(TRANSISTOR)				R222	9-993-687-01	CARBON 1500	1/5W
Q101	△ 8-729-303-04	TRANSISTOR 2SC3832		R101	9-993-695-01	THERMISTOR 100-9	
Q102	△ 8-729-906-02	TRANSISTOR 2SC20600		(VARIABLE RESISTOR)			
Q201	8-729-281-53	TRANSISTOR 2SC1815		RV201	9-993-718-01	RES, ADJ 5K	
Q202	9-993-708-01	TRANSISTOR 2SC4064		RV202	9-993-719-01	RES, ADJ 2K	
Q203	8-729-281-53	TRANSISTOR 2SC1815		RV203	9-993-719-01	RES, ADJ 2K	
(TRANSISTOR)				(TRANSFORMER)			
Q204	9-993-708-01	TRANSISTOR 2SC4064		T101	△ 9-993-717-01	TRANSFORMER, DRIVE	
Q205	8-729-281-53	TRANSISTOR 2SC1815		*****			
Q207	8-729-202-45	TRANSISTOR 2SA1020		A-7061-827-A RP-73 (LP) BOARD, COMPLETE			
(RESISTOR)				*****			
R102	△ 9-993-696-01	CARBON 0.82	2W	(CAPACITOR)			
R103	△ 9-993-697-01	METAL OXIDE 150K	1/2W	C001	1-162-974-11	CERAMIC CHIP 0.01uF	50V
R104	△ 1-206-696-61	METAL OXIDE 22K	2W	C002	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R105	△ 1-206-479-61	METAL OXIDE 47	2W	C003	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
R106	9-993-688-01	CARBON 2200	1/5W	C005	1-164-330-21	CERAMIC CHIP 0.22uF	10% 16V
R107	9-993-686-01	CARBON 1K	1/5W	C006	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V
R108	△ 1-206-479-61	METAL OXIDE 47	2W	C007	1-163-077-00	CERAMIC CHIP 0.1uF	10% 25V
R109	9-993-684-01	CARBON 470	1/5W	C008	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R110	9-993-683-01	CARBON 390	1/5W	C009	1-163-035-00	CERAMIC CHIP 0.047uF	50V
R201	9-993-692-01	CARBON 10K	1/5W	C010	1-163-077-00	CERAMIC CHIP 0.1uF	10% 25V
R202	9-993-692-01	CARBON 10K	1/5W	C011	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R203	9-993-694-01	CARBON 47K	1/5W	C012	1-164-330-21	CERAMIC CHIP 0.22uF	10% 16V
R204	9-993-694-01	CARBON 47K	1/5W	C013	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
R205	9-993-693-01	CARBON 12K	1/5W	C015	1-162-974-11	CERAMIC CHIP 0.01uF	50V
R206	9-993-693-01	CARBON 12K	1/5W	C016	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R207	9-993-690-01	CARBON 3300	1/5W	C017	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R208	9-993-694-01	CARBON 47K	1/5W	C020	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R209	9-993-694-01	CARBON 47K	1/5W	C021	1-162-974-11	CERAMIC CHIP 0.01uF	50V
R210	9-993-686-01	CARBON 1K	1/5W	C022	1-135-091-00	TANTALUM CHIP 1uF	20% 16V
R211	9-993-691-01	CARBON 4700	1/5W	C023	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
R212	9-993-690-01	CARBON 3300	1/5W	C024	1-164-232-11	CERAMIC CHIP 0.01uF	50V
R213	9-993-685-01	CARBON 680	1/5W				
R214	9-993-689-01	CARBON 2700	1/5W				

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RP-73 (SP) RS-31

Ref. No.	Part No.	Description	Remark
R011	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R012	1-216-081-00	METAL CHIP 22K 5X 1/10W	
R013	1-216-055-00	METAL CHIP 1.8K 5X 1/10W	
R014	1-216-824-11	METAL CHIP 1.8K 5X 1/16W	
R015	1-216-085-00	METAL CHIP 33K 5X 1/10W	
R016	1-216-081-00	METAL CHIP 22K 5X 1/10W	
R017	1-216-085-00	METAL CHIP 33K 5X 1/10W	
R018	1-216-081-00	METAL CHIP 22K 5X 1/10W	
R019	1-216-089-00	METAL CHIP 47K 5X 1/10W	
R020	1-216-053-00	METAL CHIP 1.5K 5X 1/10W	
R021	1-216-053-00	METAL CHIP 1.5K 5X 1/10W	
R026	1-216-837-11	METAL CHIP 22K 5X 1/16W	
R027	1-216-833-11	METAL CHIP 10K 5X 1/16W	
R028	1-216-797-11	METAL CHIP 10 5X 1/16W	
R029	1-216-812-11	METAL CHIP 180 5X 1/16W	
R030	1-216-837-11	METAL CHIP 22K 5X 1/16W	
R031	1-216-833-11	METAL CHIP 10K 5X 1/16W	
R032	1-216-797-11	METAL CHIP 10 5X 1/16W	
R033	1-216-812-11	METAL CHIP 180 5X 1/16W	
(VARIABLE RESISTOR)			
RV001	1-230-871-11	RES. ADJ. METAL 22K	
RV002	1-230-871-11	RES. ADJ. METAL 22K	
RV003	1-230-869-11	RES. ADJ. METAL 4.7K	
RV004	1-230-869-11	RES. ADJ. METAL 4.7K	

* A-7061-818-A RS-31 BOARD, COMPLETE			

* 1-559-762-11 WIRE, FLAT TYPE 22P			
3-712-410-01 HOLDER, RS			
3-722-175-01 SPACER, MD			
(CONNECTOR)			
CN301	1-506-481-11	CONNECTOR 2P, MALE	
CN302	1-506-481-11	CONNECTOR 2P, MALE	
CN304	* 1-563-494-11	CONNECTOR, F.P.C. 6P	
CN305	* 1-565-211-11	CONNECTOR, FPC (ZIF) 22P	
(DIODE)			
D320	8-719-800-76	DIODE 1SS226	

Ref. No.	Part No.	Description	Remark
D321	8-719-800-76	DIODE 1SS226	
(IC)			
IC301	8-759-908-81	IC MB3763PF	
IC302	8-759-908-81	IC MB3763PF	
(PHOTO INTERRUPTER)			
PH301	8-719-939-11	PHOTO INTERRUPTER GP-2509-B	
PH302	8-719-939-11	PHOTO INTERRUPTER GP-2509-B	
PH303	8-719-939-11	PHOTO INTERRUPTER GP-2509-B	
(LINK IC)			
PS301	△ 1-532-727-11	LINK, IC (0.25A 125V)	
(TRANSISTOR)			
Q301	8-729-805-25	TRANSISTOR 2SB1121	
Q302	8-729-216-22	TRANSISTOR 2SA1162	
Q303	8-729-216-22	TRANSISTOR 2SA1162	
Q304	8-729-216-22	TRANSISTOR 2SA1162	
Q305	8-729-901-01	TRANSISTOR DTC144EK	
Q306	8-729-901-01	TRANSISTOR DTC144EK	
Q307	8-729-901-01	TRANSISTOR DTC144EK	
(RESISTOR)			
R302	1-216-174-00	METAL GLAZE 100 5X 1/8W	
R303	1-216-186-00	METAL GLAZE 330 5X 1/8W	
R304	1-216-089-00	METAL CHIP 47K 5X 1/10W	
R305	1-216-089-00	METAL CHIP 47K 5X 1/10W	
R306	1-216-089-00	METAL CHIP 47K 5X 1/10W	
R307	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R308	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R309	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R320	1-216-041-00	METAL CHIP 470 5X 1/10W	
R321	1-216-041-00	METAL CHIP 470 5X 1/10W	
R322	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R323	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R324	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R325	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R326	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R327	1-216-073-00	METAL CHIP 10K 5X 1/10W	
R328	1-216-073-00	METAL CHIP 10K 5X 1/10W	

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
*****				C042	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
A-7061-822-A RP-73 (SP) BOARD, COMPLETE				C043	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V
*****				C044	1-162-974-11	CERAMIC CHIP 0.01uF	50V
< CAPACITOR >				C045	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C001	1-162-974-11	CERAMIC CHIP 0.01uF	50V	C046	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C002	1-164-232-11	CERAMIC CHIP 0.01uF	50V	< DIODE >			
C003	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	D001	8-719-801-41	DIODE 1SS196	
C005	1-164-330-21	CERAMIC CHIP 0.22uF	10% 16V	D002	8-719-801-41	DIODE 1SS196	
C006	1-135-161-21	TANTALUM CHIP 22uF	10% 6.3V	< IC >			
C007	1-163-077-00	CERAMIC CHIP 0.1uF	10% 25V	IC001	8-752-033-00	IC CXA1234AR	
C008	1-164-232-11	CERAMIC CHIP 0.01uF	50V	< COIL >			
C009	1-163-035-00	CERAMIC CHIP 0.047uF	50V	L001	1-410-385-11	INDUCTOR CHIP 22uH	
C010	1-163-077-00	CERAMIC CHIP 0.1uF	10% 25V	L002	1-410-656-11	INDUCTOR CHIP 150uH	
C011	1-164-232-11	CERAMIC CHIP 0.01uF	50V	L004	1-410-393-11	INDUCTOR CHIP 100uH	
C012	1-164-330-21	CERAMIC CHIP 0.22uF	10% 16V	L005	1-410-381-11	INDUCTOR CHIP 10uH	
C013	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	L007	1-410-393-11	INDUCTOR CHIP 100uH	
C015	1-162-974-11	CERAMIC CHIP 0.01uF	50V	L008	1-410-384-31	INDUCTOR CHIP 18uH	
C016	1-164-232-11	CERAMIC CHIP 0.01uF	50V	L009	1-410-384-31	INDUCTOR CHIP 18uH	
C017	1-164-232-11	CERAMIC CHIP 0.01uF	50V	L031	1-408-777-00	INDUCTOR CHIP 10uH	
C020	1-164-232-11	CERAMIC CHIP 0.01uF	50V	L041	1-408-793-21	INDUCTOR CHIP 220uH	
C021	1-162-974-11	CERAMIC CHIP 0.01uF	50V	L042	1-408-777-00	INDUCTOR CHIP 10uH	
C022	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	L051	1-408-785-21	INDUCTOR CHIP 47uH	
C023	1-135-157-21	TANTALUM CHIP 10uF	20% 6.3V	< TRANSISTOR >			
C024	1-164-232-11	CERAMIC CHIP 0.01uF	50V	Q002	8-729-102-07	TRANSISTOR 2SC2223-F13	
C025	1-164-232-11	CERAMIC CHIP 0.01uF	50V	Q003	8-729-102-07	TRANSISTOR 2SC2223-F13	
C027	1-135-091-00	TANTALUM CHIP 1uF	20% 16V	< RESISTOR >			
C028	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	R001	1-216-089-00	METAL CHIP 47K 5% 1/10W	
C029	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	R002	1-216-073-00	METAL CHIP 10K 5% 1/10W	
C030	1-162-974-11	CERAMIC CHIP 0.01uF	50V	R003	1-216-081-00	METAL CHIP 22K 5% 1/10W	
C031	1-164-218-11	CERAMIC CHIP 180PF	0.25PF 50V	R004	1-216-055-00	METAL CHIP 1.8K 5% 1/10W	
C032	1-162-918-11	CERAMIC CHIP 18PF	5% 50V	R005	1-216-824-11	METAL CHIP 1.8K 5% 1/16W	
C033	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V	R006	1-216-081-00	METAL CHIP 22K 5% 1/10W	
C034	1-162-912-11	CERAMIC CHIP 7PF	0.5PF 50V	R007	1-216-836-11	METAL CHIP 18K 5% 1/16W	
C035	1-162-974-11	CERAMIC CHIP 0.01uF	50V	R008	1-216-837-11	METAL CHIP 22K 5% 1/16W	
C036	1-164-218-11	CERAMIC CHIP 180PF	0.25PF 50V	R009	1-216-081-00	METAL CHIP 22K 5% 1/10W	
C037	1-162-918-11	CERAMIC CHIP 18PF	5% 50V	R010	1-216-089-00	METAL CHIP 47K 5% 1/10W	
C038	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V				
C039	1-162-912-11	CERAMIC CHIP 7PF	0.5PF 50V				
C040	1-162-913-11	CERAMIC CHIP 8PF	0.5PF 50V				
C041	1-162-913-11	CERAMIC CHIP 8PF	0.5PF 50V				

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Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark	
C211	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C508	1-124-589-11	ELECT	47uF	20%	16V	
C212	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	C601	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C213	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	C602	1-163-035-00	CERAMIC CHIP	0.047uF	50V	
C214	1-164-232-11	CERAMIC CHIP	0.01uF	50V							
C215	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C603	1-163-035-00	CERAMIC CHIP	0.047uF	50V		
					C604	1-124-589-11	ELECT	47uF	20%	16V	
C216	1-163-038-00	CERAMIC CHIP	0.1uF	25V	C605	1-163-035-00	CERAMIC CHIP	0.047uF	50V		
C217	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	C606	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C218	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V	C607	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C219	1-164-232-11	CERAMIC CHIP	0.01uF	50V							
C220	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C608	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
					C609	1-163-035-00	CERAMIC CHIP	0.047uF	50V		
C221	1-124-256-00	ELECT	1.5uF	20%	50V	C610	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C223	1-163-038-00	CERAMIC CHIP	0.1uF	25V	C611	1-126-157-11	ELECT	10uF	20%	16V	
C224	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C612	1-126-157-11	ELECT	10uF	20%	16V	
C226	1-164-232-11	CERAMIC CHIP	0.01uF	50V							
C301	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C613	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
					C614	1-164-232-11	CERAMIC CHIP	0.01uF	50V		
C302	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C615	1-164-232-11	CERAMIC CHIP	0.01uF	50V		
C303	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C616	1-164-633-11	CERAMIC CHIP	0.1uF	10%	25V	
C304	1-124-584-00	ELECT	100uF	20%	10V	C617	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
C305	1-164-232-11	CERAMIC CHIP	0.01uF	50V							
C306	1-124-584-00	ELECT	100uF	20%	10V	C620	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
					C621	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C307	1-126-163-11	ELECT	4.7uF	20%	50V	C622	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C308	1-124-257-00	ELECT	2.2uF	20%	50V	C623	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C624	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C310	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V						
C311	1-163-038-00	CERAMIC CHIP	0.1uF	25V	C625	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
					C626	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C401	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C627	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C402	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	C628	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C403	1-126-163-11	ELECT	4.7uF	20%	50V	C629	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C404	1-126-163-11	ELECT	4.7uF	20%	50V						
C405	1-164-232-11	CERAMIC CHIP	0.01uF	50V	C630	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
					C631	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V	
C406	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	C632	1-126-157-11	ELECT	10uF	20%	16V
C407	1-163-035-00	CERAMIC CHIP	0.047uF	50V							
C408	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V						
C409	1-164-232-11	CERAMIC CHIP	0.01uF	50V							
C410	1-163-125-00	CERAMIC CHIP	220PF	5%	50V						
C411	1-163-035-00	CERAMIC CHIP	0.047uF	50V							
C412	1-126-157-11	ELECT	10uF	20%	16V						
C502	1-163-038-00	CERAMIC CHIP	0.1uF	25V							
C503	1-164-232-11	CERAMIC CHIP	0.01uF	50V							
C504	1-124-257-00	ELECT	2.2uF	20%	50V						
C505	1-163-038-00	CERAMIC CHIP	0.1uF	25V							
C506	1-164-232-11	CERAMIC CHIP	0.01uF	50V							

< CONNECTOR >										
CN001	* 1-566-641-11	CONNECTOR, HINGE (TAB) 18P								
CN002	* 1-566-941-11	CONNECTOR, HINGE (TAB) 30P								
CN003	* 1-566-641-11	CONNECTOR, HINGE (TAB) 18P								
CN004	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P								
CN004	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P								
CN005	1-566-944-11	CONNECTOR, BOARD TO BOARD 22P								
CN005	1-566-946-11	CONNECTOR, BOARD TO BOARD 22P								
CN006	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P								
CN007	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P								

< CONNECTOR >

CN001	* 1-566-641-11	CONNECTOR, HINGE (TAB) 18P
CN002	* 1-566-941-11	CONNECTOR, HINGE (TAB) 30P
CN003	* 1-566-641-11	CONNECTOR, HINGE (TAB) 18P
CN004	1-566-943-11	CONNECTOR, BOARD TO BOARD 18P
CN004	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P
CN005	1-566-944-11	CONNECTOR, BOARD TO BOARD 22P
CN005	1-566-946-11	CONNECTOR, BOARD TO BOARD 22P
CN006	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P
CN007	1-566-945-11	CONNECTOR, BOARD TO BOARD 18P

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R329	1-216-073-00	METAL CHIP	10K 5% 1/10W	C102	1-164-232-11	CERAMIC CHIP	0.01uF 50V
R330	1-216-073-00	METAL CHIP	10K 5% 1/10W	C103	1-164-232-11	CERAMIC CHIP	0.01uF 50V
R331	1-216-073-00	METAL CHIP	10K 5% 1/10W	C104	1-164-232-11	CERAMIC CHIP	0.01uF 50V
R332	1-216-073-00	METAL CHIP	10K 5% 1/10W	C105	1-163-263-11	CERAMIC CHIP	330PF 5% 50V
				C106	1-163-109-00	CERAMIC CHIP	47PF 5% 50V
				C107	1-163-109-00	CERAMIC CHIP	47PF 5% 50V

* A-7061-823-A SE-10 BOARD, COMPLETE							

3-831-441-XX CUSHION (5)							
(CAPACITOR)							
C006	1-126-157-11	ELECT	10uF 20% 16V	C113	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V
C008	1-163-095-00	CERAMIC CHIP	12PF 5% 50V	C114	1-163-017-00	CERAMIC CHIP	0.0047uF 5% 50V
C009	1-163-095-00	CERAMIC CHIP	12PF 5% 50V	C115	1-126-157-11	ELECT	10uF 20% 16V
C010	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C116	1-124-499-11	ELECT, NONPOLAR	10uF 20% 50V
C011	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C117	1-163-109-00	CERAMIC CHIP	47PF 5% 50V
C012	1-126-163-11	ELECT	4.7uF 20% 50V	C119	1-163-017-00	CERAMIC CHIP	0.0047uF 5% 50V
C013	1-126-157-11	ELECT	10uF 20% 16V	C120	1-163-209-00	CERAMIC CHIP	0.0015uF 5% 50V
C014	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C121	1-163-209-00	CERAMIC CHIP	0.0015uF 5% 50V
C015	1-163-105-00	CERAMIC CHIP	33PF 5% 50V	C122	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C016	1-163-077-00	CERAMIC CHIP	0.1uF 10% 25V	C127	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V
C017	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C128	1-124-767-00	ELECT	2.2uF 20% 50V
C018	1-163-251-11	CERAMIC CHIP	100PF 5% 50V	C129	1-126-163-11	ELECT	4.7uF 20% 50V
C019	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C130	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V
C020	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C131	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C021	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C132	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C022	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C133	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C024	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C134	1-124-499-11	ELECT, NONPOLAR	10uF 20% 50V
C025	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C135	1-163-017-00	CERAMIC CHIP	0.0047uF 5% 50V
C026	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C136	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C027	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C137	1-124-768-11	ELECT	4.7uF 20% 50V
C028	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C201	1-163-038-00	CERAMIC CHIP	0.1uF 25V
C031	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C202	1-163-123-00	CERAMIC CHIP	180PF 5% 50V
C032	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C203	1-163-137-00	CERAMIC CHIP	680PF 5% 50V
C033	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C204	1-163-105-00	CERAMIC CHIP	33PF 5% 50V
C034	1-164-232-11	CERAMIC CHIP	0.01uF 50V	C205	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C035	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C206	1-164-232-11	CERAMIC CHIP	0.01uF 50V
C036	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C207	1-163-141-00	CERAMIC CHIP	0.001uF 5% 50V
C037	1-163-038-00	CERAMIC CHIP	0.1uF 25V	C208	1-163-037-11	CERAMIC CHIP	0.022uF 10% 25V
C101	1-126-157-11	ELECT	10uF 20% 16V	C209	1-163-809-11	CERAMIC CHIP	0.047uF 10% 25V
				C210	1-124-234-00	ELECT	22uF 20% 16V

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
L101	1-408-777-00	INDUCTOR CHIP 10uH		Q117	8-729-901-06	TRANSISTOR DTA144EK	
L401	1-408-777-00	INDUCTOR CHIP 10uH		Q202	8-729-216-22	TRANSISTOR 2SA1162	
L402	1-408-777-00	INDUCTOR CHIP 10uH		Q205	8-729-901-01	TRANSISTOR DTC144EK	
L403	1-408-783-00	INDUCTOR CHIP 33uH		Q209	8-729-901-06	TRANSISTOR DTA144EK	
L404	1-408-777-00	INDUCTOR CHIP 10uH		Q210	8-729-901-01	TRANSISTOR DTC144EK	
L501	1-408-777-00	INDUCTOR CHIP 10uH		Q301	8-729-901-06	TRANSISTOR DTA144EK	
L601	1-408-777-00	INDUCTOR CHIP 10uH		Q302	8-729-901-01	TRANSISTOR DTC144EK	
L602	1-408-777-00	INDUCTOR CHIP 10uH		Q303	8-729-901-01	TRANSISTOR DTC144EK	
		(LINK IC)		Q304	8-729-901-01	TRANSISTOR DTC144EK	
PS601	△ 1-532-679-00	LINK IC		Q305	8-729-901-01	TRANSISTOR DTC144EK	
		(TRANSISTOR)		Q306	8-729-901-06	TRANSISTOR DTA144EK	
Q002	8-729-901-01	TRANSISTOR DTC144EK		Q307	8-729-901-01	TRANSISTOR DTC144EK	
Q003	8-729-901-06	TRANSISTOR DTA144EK		Q308	8-729-901-01	TRANSISTOR DTC144EK	
Q004	8-729-901-01	TRANSISTOR DTC144EK		Q309	8-729-901-01	TRANSISTOR DTC144EK	
Q005	8-729-901-01	TRANSISTOR DTC144EK		Q401	8-729-216-22	TRANSISTOR 2SA1162	
Q006	8-729-901-01	TRANSISTOR DTC144EK		Q402	8-729-100-66	TRANSISTOR 2SC1623	
Q007	8-729-901-01	TRANSISTOR DTC144EK		Q403	8-729-100-66	TRANSISTOR 2SC1623	
Q008	8-729-901-01	TRANSISTOR DTC144EK		Q404	8-729-216-22	TRANSISTOR 2SA1162	
Q009	8-729-901-01	TRANSISTOR DTC144EK		Q405	8-729-100-66	TRANSISTOR 2SC1623	
Q010	8-729-901-06	TRANSISTOR DTA144EK		Q406	8-729-216-22	TRANSISTOR 2SA1162	
Q011	8-729-901-06	TRANSISTOR DTA144EK		Q407	8-729-100-66	TRANSISTOR 2SC1623	
Q014	8-729-901-01	TRANSISTOR DTC144EK		Q408	8-729-216-22	TRANSISTOR 2SA1162	
Q015	8-729-901-01	TRANSISTOR DTC144EK		Q409	8-729-100-66	TRANSISTOR 2SC1623	
Q018	8-729-901-01	TRANSISTOR DTC144EK		Q410	8-729-100-66	TRANSISTOR 2SC1623	
Q101	8-729-901-06	TRANSISTOR DTA144EK		Q411	8-729-100-66	TRANSISTOR 2SC1623	
Q102	8-729-901-06	TRANSISTOR DTA144EK		Q502	8-729-100-66	TRANSISTOR 2SC1623	
Q103	8-729-901-06	TRANSISTOR DTA144EK		Q503	8-729-901-06	TRANSISTOR DTA144EK	
Q104	8-729-901-01	TRANSISTOR DTC144EK		Q504	8-729-100-66	TRANSISTOR 2SC1623	
Q106	8-729-100-66	TRANSISTOR 2SC1623		Q505	8-729-100-66	TRANSISTOR 2SC1623	
Q107	8-729-901-06	TRANSISTOR DTA144EK		Q506	8-729-100-66	TRANSISTOR 2SC1623	
Q108	8-729-901-06	TRANSISTOR DTA144EK		Q507	8-729-901-06	TRANSISTOR DTA144EK	
Q109	8-729-901-06	TRANSISTOR DTA144EK		Q508	8-729-901-06	TRANSISTOR DTA144EK	
Q110	8-729-901-06	TRANSISTOR DTA144EK		Q601	8-729-901-06	TRANSISTOR DTA144EK	
Q111	8-729-100-66	TRANSISTOR 2SC1623		Q604	8-729-805-25	TRANSISTOR 2SB1121	
Q112	8-729-901-01	TRANSISTOR DTC144EK		Q605	8-729-100-66	TRANSISTOR 2SC1623	
Q113	8-729-901-01	TRANSISTOR DTC144EK		Q606	8-729-901-06	TRANSISTOR DTA144EK	
Q114	8-729-901-01	TRANSISTOR DTC144EK		Q701	8-729-901-06	TRANSISTOR DTA144EK	
Q115	8-729-901-01	TRANSISTOR DTC144EK		Q702	8-729-901-06	TRANSISTOR DTA144EK	
Q116	8-729-901-06	TRANSISTOR DTA144EK		Q703	8-729-901-01	TRANSISTOR DTC144EK	
				Q704	8-729-216-22	TRANSISTOR 2SA1162	
				Q705	8-729-216-22	TRANSISTOR 2SA1162	
				Q706	8-729-100-66	TRANSISTOR 2SC1623	

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
CN011	1-565-212-11	CONNECTOR, FPC (ZIF) 26P		D701	8-719-400-18	DIODE MA152WK	
CN012	* 1-565-211-11	CONNECTOR, FPC (ZIF) 22P				(FILTER)	
CN901	1-506-473-11	CONNECTOR 8P, MALE		FL201	1-235-611-11	BPF	
CN902	1-506-477-11	CONNECTOR 12P, MALE		FL202	1-235-612-11	BPF	
CN903	1-506-478-11	CONNECTOR 13P, MALE				(IC)	
CN904	1-506-470-11	CONNECTOR 5P, MALE					
CN905	1-506-474-11	CONNECTOR 9P, MALE		IC001	8-752-816-72	IC CXP80116-6920	
CN906	1-506-472-11	CONNECTOR 7P, MALE		IC002	8-752-817-63	IC CXP5048H-2430	
CN907	1-506-477-11	CONNECTOR 12P, MALE		IC003	8-752-815-13	IC CXP5048H-2220	
		(DIODE)		IC004	8-759-144-21	IC μ P0751066-573	
D003	8-719-400-18	DIODE MA152WK		IC007	8-759-008-67	IC TC4066BF	
D004	8-719-400-18	DIODE MA152WK		IC008	8-759-937-56	IC S-8054ALB-LM	
D005	8-719-400-18	DIODE MA152WK		IC009	8-759-209-15	IC TC45069F	
D006	8-719-104-34	DIODE 1S2836		IC101	8-752-003-50	IC CX20035	
D007	8-719-400-18	DIODE MA152WK		IC102	8-759-803-47	IC LA5005M	
D008	8-719-400-18	DIODE MA152WK		IC103	8-759-925-66	IC BA6303F	
D009	8-719-400-18	DIODE MA152WK		IC104	8-759-981-75	IC RC3403AM	
D012	8-719-400-18	DIODE MA152WK		IC105	8-759-300-71	IC TC4053BF	
D013	8-719-400-18	DIODE MA152WK		IC106	8-759-971-25	IC MB674169U	
D015	8-719-104-34	DIODE 1S2836		IC107	8-759-100-94	IC μ PC3582	
D016	8-719-104-34	DIODE 1S2836		IC108	8-759-008-67	IC TC4066BF	
D018	8-719-400-18	DIODE MA152WK		IC201	8-759-928-56	IC CXA1042M	
D101	8-719-800-76	DIODE 1SS226		IC202	8-759-150-05	IC μ PC324G2	
D102	8-719-800-76	DIODE 1SS226		IC203	8-759-300-71	IC TC4053BF	
D104	8-719-104-34	DIODE 1S2836		IC204	8-759-927-46	IC SN74HC00ANS	
D105	8-719-400-18	DIODE MA152WK		IC206	8-759-035-93	IC TC7532F	
D106	8-719-400-18	DIODE MA152WK		IC301	8-759-100-94	IC μ PC3582	
D107	8-719-104-34	DIODE 1S2836		IC302	8-759-300-71	IC TC4053BF	
D108	8-719-400-18	DIODE MA152WK		IC303	8-759-300-71	IC TC4053BF	
D109	8-719-400-18	DIODE MA152WK		IC304	8-759-200-90	IC TC4538BF	
D110	8-719-104-34	DIODE 1S2836		IC305	8-759-927-46	IC SN74HC00ANS	
D111	8-719-400-18	DIODE MA152WK		IC601	8-759-927-94	IC BU3707F	
D112	8-719-104-34	DIODE 1S2836		IC602	8-759-927-52	IC BA7036LS	
D115	8-719-104-34	DIODE 1S2836		IC603	8-759-100-93	IC μ PC393G2	
D201	8-719-400-18	DIODE MA152WK		IC604	8-759-150-05	IC μ PC324G2	
D203	8-719-105-82	DIODE RDS.1M		IC651	8-759-711-79	IC NJM2233BM	
D203	8-719-105-83	DIODE RDS.1M				(COIL)	
D301	8-719-400-18	DIODE MA152WK		L001	1-408-777-00	INDUCTOR CHIP 10 μ H	
D302	8-719-400-18	DIODE MA152WK		L002	1-408-777-00	INDUCTOR CHIP 10 μ H	
D401	8-719-800-76	DIODE 1SS226		L003	1-408-777-00	INDUCTOR CHIP 10 μ H	

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R081	1-216-080-00	METAL CHIP	20K 5% 1/10W	R124	1-216-085-00	METAL CHIP	33K 5% 1/10W
R082	1-216-080-00	METAL CHIP	20K 5% 1/10W	R125	1-216-113-00	METAL CHIP	470K 5% 1/10W
R083	1-216-080-00	METAL CHIP	20K 5% 1/10W	R126	1-216-113-00	METAL CHIP	470K 5% 1/10W
R084	1-216-080-00	METAL CHIP	20K 5% 1/10W	R127	1-216-105-00	METAL CHIP	220K 5% 1/10W
R085	1-216-073-00	METAL CHIP	10K 5% 1/10W	R128	1-216-093-00	METAL CHIP	68K 5% 1/10W
R086	1-216-073-00	METAL CHIP	10K 5% 1/10W	R129	1-216-097-00	METAL CHIP	100K 5% 1/10W
R087	1-216-073-00	METAL CHIP	10K 5% 1/10W	R130	1-216-097-00	METAL CHIP	100K 5% 1/10W
R088	1-216-073-00	METAL CHIP	10K 5% 1/10W	R131	1-216-097-00	METAL CHIP	100K 5% 1/10W
R089	1-216-073-00	METAL CHIP	10K 5% 1/10W	R132	1-216-121-00	METAL CHIP	1M 5% 1/10W
R090	1-216-073-00	METAL CHIP	10K 5% 1/10W	R133	1-216-091-00	METAL CHIP	56K 5% 1/10W
R091	1-216-073-00	METAL CHIP	10K 5% 1/10W	R135	1-216-073-00	METAL CHIP	10K 5% 1/10W
R092	1-216-089-00	METAL CHIP	47K 5% 1/10W	R137	1-216-663-11	METAL CHIP	3.3K 0.5% 1/10W
R093	1-216-089-00	METAL CHIP	47K 5% 1/10W	R138	1-216-667-11	METAL CHIP	4.7K 0.5% 1/10W
R094	1-216-683-11	METAL CHIP	22K 0.5% 1/10W	R139	1-216-295-00	METAL CHIP	0 5% 1/10W
R095	1-216-091-00	METAL CHIP	56K 5% 1/10W	R140	1-216-295-00	METAL CHIP	0 5% 1/10W
R096	1-216-077-00	METAL CHIP	15K 5% 1/10W	R141	1-216-067-00	METAL CHIP	5.6K 5% 1/10W
R097	1-216-049-00	METAL CHIP	1K 5% 1/10W	R142	1-216-073-00	METAL CHIP	10K 5% 1/10W
R098	1-216-073-00	METAL CHIP	10K 5% 1/10W	R143	1-216-687-11	METAL CHIP	33K 0.5% 1/10W
R099	1-216-049-00	METAL CHIP	1K 5% 1/10W	R148	1-216-089-00	METAL CHIP	47K 5% 1/10W
R101	1-216-079-00	METAL CHIP	18K 5% 1/10W	R149	1-216-097-00	METAL CHIP	100K 5% 1/10W
R102	1-216-085-00	METAL CHIP	33K 5% 1/10W	R150	1-216-073-00	METAL CHIP	10K 5% 1/10W
R103	1-216-049-00	METAL CHIP	1K 5% 1/10W	R151	1-216-081-00	METAL CHIP	22K 5% 1/10W
R104	1-216-069-00	METAL CHIP	6.8K 5% 1/10W	R152	1-216-082-00	METAL GLAZE	24K 5% 1/10W
R105	1-216-083-00	METAL CHIP	27K 5% 1/10W	R153	1-216-073-00	METAL CHIP	10K 5% 1/10W
R106	1-216-109-00	METAL CHIP	330K 5% 1/10W	R154	1-216-073-00	METAL CHIP	10K 5% 1/10W
R107	1-216-073-00	METAL CHIP	10K 5% 1/10W	R155	1-216-049-00	METAL CHIP	1K 5% 1/10W
R108	1-216-091-00	METAL CHIP	56K 5% 1/10W	R156	1-216-097-00	METAL CHIP	100K 5% 1/10W
R109	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R157	1-216-097-00	METAL CHIP	100K 5% 1/10W
R110	1-216-113-00	METAL CHIP	470K 5% 1/10W	R158	1-216-113-00	METAL CHIP	470K 5% 1/10W
R111	1-216-113-00	METAL CHIP	470K 5% 1/10W	R159	1-216-073-00	METAL CHIP	10K 5% 1/10W
R112	1-216-113-00	METAL CHIP	470K 5% 1/10W	R160	1-216-061-00	METAL CHIP	3.3K 5% 1/10W
R113	1-216-113-00	METAL CHIP	470K 5% 1/10W	R161	1-216-103-00	METAL CHIP	180K 5% 1/10W
R114	1-216-105-00	METAL CHIP	220K 5% 1/10W	R162	1-216-049-00	METAL CHIP	1K 5% 1/10W
R115	1-216-105-00	METAL CHIP	220K 5% 1/10W	R163	1-216-085-00	METAL CHIP	4.7K 5% 1/10W
R116	1-216-099-00	METAL CHIP	120K 5% 1/10W	R164	1-216-073-00	METAL CHIP	10K 5% 1/10W
R117	1-216-117-00	METAL CHIP	680K 5% 1/10W	R165	1-216-073-00	METAL CHIP	10K 5% 1/10W
R118	1-216-081-00	METAL CHIP	22K 5% 1/10W	R167	1-216-097-00	METAL CHIP	100K 5% 1/10W
R119	1-216-117-00	METAL CHIP	680K 5% 1/10W	R168	1-216-091-00	METAL CHIP	56K 5% 1/10W
R120	1-216-295-00	METAL CHIP	0 5% 1/10W	R169	1-216-097-00	METAL CHIP	100K 5% 1/10W
R122	1-216-101-00	METAL CHIP	150K 5% 1/10W	R170	1-216-089-00	METAL CHIP	47K 5% 1/10W
R123	1-216-085-00	METAL CHIP	33K 5% 1/10W	R171	1-216-085-00	METAL CHIP	33K 5% 1/10W
				R172	1-216-089-00	METAL CHIP	47K 5% 1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
Q707	8-729-900-66	TRANSISTOR 2SC1623		R038	1-216-039-00	METAL CHIP 390 5%	1/10W
Q708	8-729-901-06	TRANSISTOR DTA144EK		R039	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q709	8-729-901-06	TRANSISTOR DTA144EK		R040	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q710	8-729-901-06	TRANSISTOR DTA144EK					
Q711	8-729-901-06	TRANSISTOR DTA144EK		R041	1-216-073-00	METAL CHIP 10K 5%	1/10W
				R043	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q712	8-729-901-06	TRANSISTOR DTA144EK		R044	1-216-049-00	METAL CHIP 1K 5%	1/10W
Q713	8-729-901-01	TRANSISTOR DTC144EK		R045	1-216-089-00	METAL CHIP 47K 5%	1/10W
Q714	8-729-901-01	TRANSISTOR DTC144EK		R046	1-216-049-00	METAL CHIP 1K 5%	1/10W
< RESISTOR >				R047	1-216-049-00	METAL CHIP 1K 5%	1/10W
R001	1-216-049-00	METAL CHIP 1K 5%	1/10W	R048	1-216-049-00	METAL CHIP 1K 5%	1/10W
R002	1-216-057-00	METAL CHIP 2.2K 5%	1/10W	R049	1-216-049-00	METAL CHIP 1K 5%	1/10W
R003	1-216-049-00	METAL CHIP 1K 5%	1/10W	R050	1-216-073-00	METAL CHIP 10K 5%	1/10W
R005	1-216-101-00	METAL CHIP 150K 5%	1/10W	R051	1-216-073-00	METAL CHIP 10K 5%	1/10W
R009	1-216-089-00	METAL CHIP 47K 5%	1/10W				
R010	1-216-049-00	METAL CHIP 1K 5%	1/10W	R052	1-216-097-00	METAL CHIP 100K 5%	1/10W
R011	1-216-049-00	METAL CHIP 1K 5%	1/10W	R053	1-216-097-00	METAL CHIP 100K 5%	1/10W
R012	1-216-049-00	METAL CHIP 1K 5%	1/10W	R054	1-216-073-00	METAL CHIP 10K 5%	1/10W
R013	1-216-049-00	METAL CHIP 1K 5%	1/10W	R055	1-216-073-00	METAL CHIP 10K 5%	1/10W
R014	1-216-049-00	METAL CHIP 1K 5%	1/10W	R056	1-216-073-00	METAL CHIP 10K 5%	1/10W
R015	1-216-049-00	METAL CHIP 1K 5%	1/10W	R057	1-216-073-00	METAL CHIP 10K 5%	1/10W
R016	1-216-089-00	METAL CHIP 47K 5%	1/10W	R058	1-216-073-00	METAL CHIP 10K 5%	1/10W
R017	1-216-089-00	METAL CHIP 47K 5%	1/10W	R059	1-216-073-00	METAL CHIP 10K 5%	1/10W
R018	1-216-691-11	METAL CHIP 47K 0.5%	1/10W	R060	1-216-073-00	METAL CHIP 10K 5%	1/10W
R019	1-216-691-11	METAL CHIP 47K 0.5%	1/10W	R061	1-216-073-00	METAL CHIP 10K 5%	1/10W
R020	1-216-687-11	METAL CHIP 33K 0.5%	1/10W	R062	1-216-039-00	METAL CHIP 390 5%	1/10W
R021	1-216-687-11	METAL CHIP 33K 0.5%	1/10W	R063	1-216-073-00	METAL CHIP 10K 5%	1/10W
R022	1-216-687-11	METAL CHIP 33K 0.5%	1/10W	R064	1-216-073-00	METAL CHIP 10K 5%	1/10W
R023	1-216-674-11	METAL CHIP 9.1K 0.5%	1/10W	R065	1-216-073-00	METAL CHIP 10K 5%	1/10W
R024	1-216-089-00	METAL CHIP 47K 5%	1/10W	R066	1-216-073-00	METAL CHIP 10K 5%	1/10W
R025	1-216-097-00	METAL CHIP 100K 5%	1/10W	R067	1-216-049-00	METAL CHIP 1K 5%	1/10W
R026	1-216-073-00	METAL CHIP 10K 5%	1/10W	R068	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R027	1-216-049-00	METAL CHIP 1K 5%	1/10W	R069	1-216-061-00	METAL CHIP 3.3K 5%	1/10W
R028	1-216-039-00	METAL CHIP 390 5%	1/10W	R070	1-216-073-00	METAL CHIP 10K 5%	1/10W
R029	1-216-049-00	METAL CHIP 1K 5%	1/10W	R071	1-216-079-00	METAL CHIP 18K 5%	1/10W
R031	1-216-097-00	METAL CHIP 100K 5%	1/10W	R072	1-216-043-00	METAL CHIP 560 5%	1/10W
R032	1-216-097-00	METAL CHIP 100K 5%	1/10W	R073	1-216-085-00	METAL CHIP 33K 5%	1/10W
R033	1-216-049-00	METAL CHIP 1K 5%	1/10W	R074	1-216-049-00	METAL CHIP 1K 5%	1/10W
R034	1-216-089-00	METAL CHIP 47K 5%	1/10W	R075	1-216-039-00	METAL CHIP 390 5%	1/10W
R035	1-216-089-00	METAL CHIP 47K 5%	1/10W	R076	1-216-080-00	METAL CHIP 20K 5%	1/10W
R036	1-216-073-00	METAL CHIP 10K 5%	1/10W	R077	1-216-080-00	METAL CHIP 20K 5%	1/10W
R037	1-216-089-00	METAL CHIP 47K 5%	1/10W	R078	1-216-080-00	METAL CHIP 20K 5%	1/10W
				R079	1-216-080-00	METAL CHIP 20K 5%	1/10W
				R080	1-216-080-00	METAL CHIP 20K 5%	1/10W

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Ref. No.	Part No.	Description			
R422	1-216-081-00	METAL CHIP	22K	5%	1/10W
R502	1-216-045-00	METAL CHIP	880	5%	1/10W
R503	1-216-077-00	METAL CHIP	15K	5%	1/10W
R504	1-216-073-00	METAL CHIP	10K	5%	1/10W
R505	1-216-033-00	METAL CHIP	220	5%	1/10W
R506	1-216-035-00	METAL CHIP	270	5%	1/10W
R507	1-216-041-00	METAL CHIP	470	5%	1/10W
R508	1-216-076-00	METAL GLAZE	13K	5%	1/10W
R509	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R510	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R511	1-216-049-00	METAL CHIP	1K	5%	1/10W
R512	1-216-085-00	METAL CHIP	33K	5%	1/10W
R513	1-216-081-00	METAL CHIP	22K	5%	1/10W
R514	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R515	1-216-041-00	METAL CHIP	470	5%	1/10W
R551	1-216-073-00	METAL CHIP	10K	5%	1/10W
R552	1-216-073-00	METAL CHIP	10K	5%	1/10W
R553	1-216-748-11	METAL CHIP	39K	5%	1/10W
R554	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R555	1-216-073-00	METAL CHIP	10K	5%	1/10W
R556	1-216-073-00	METAL CHIP	10K	5%	1/10W
R557	1-216-109-00	METAL CHIP	330K	5%	1/10W
R558	1-216-295-00	METAL CHIP	0	5%	1/10W
R561	1-216-073-00	METAL CHIP	10K	5%	1/10W
R562	1-216-090-00	METAL CHIP	51K	5%	1/10W
R563	1-216-083-00	METAL CHIP	27K	5%	1/10W
R564	1-216-073-00	METAL CHIP	10K	5%	1/10W
R565	1-216-049-00	METAL CHIP	1K	5%	1/10W
R566	1-216-041-00	METAL CHIP	470	5%	1/10W
R567	1-216-049-00	METAL CHIP	1K	5%	1/10W
R602	1-216-081-00	METAL CHIP	22K	5%	1/10W
R604	1-216-049-00	METAL CHIP	1K	5%	1/10W
R605	1-216-073-00	METAL CHIP	10K	5%	1/10W
R606	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R607	1-216-073-00	METAL CHIP	10K	5%	1/10W
R608	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R609	1-216-049-00	METAL CHIP	1K	5%	1/10W
R610	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R611	1-216-073-00	METAL CHIP	10K	5%	1/10W
R612	1-216-073-00	METAL CHIP	10K	5%	1/10W
R613	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R614	1-216-049-00	METAL CHIP	1K	5%	1/10W

Remark	Ref. No.	Part No.	Description			Remark
	R615	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R616	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R617	1-216-121-00	METAL CHIP	1M	5%	1/10W
	R618	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R619	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R620	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R621	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R622	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R623	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R624	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R625	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R626	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R627	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R628	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R629	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R630	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R632	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R633	1-216-045-00	METAL CHIP	680	5%	1/10W
	R634	1-216-045-00	METAL CHIP	680	5%	1/10W
	R635	1-216-045-00	METAL CHIP	680	5%	1/10W
	R636	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R637	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R638	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R639	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R640	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R641	1-216-073-00	METAL CHIP	10K	5%	1/10W
	R643	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R644	1-216-049-00	METAL CHIP	1K	5%	1/10W
	R701	1-216-097-00	METAL CHIP	100K	5%	1/10W
	R702	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
	R703	1-216-695-11	METAL CHIP	68K	0.5%	1/10W
	R704	1-216-697-11	METAL CHIP	82K	0.5%	1/10W
	R705	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W
	R706	1-216-697-11	METAL CHIP	82K	0.5%	1/10W
	R707	1-216-101-00	METAL CHIP	150K	5%	1/10W
	R708	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
	R709	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
	R710	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
	R711	1-216-666-11	METAL CHIP	4.3K	0.5%	1/10W
	R712	1-216-693-11	METAL CHIP	56K	0.5%	1/10W
	R713	1-216-691-11	METAL CHIP	47K	0.5%	1/10W
	R714	1-216-663-11	METAL CHIP	3.3K	0.5%	1/10W

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R173	1-216-073-00	METAL CHIP	10K 5% 1/10W	R312	1-216-063-00	METAL CHIP	3.9K 5% 1/10W
R174	1-216-073-00	METAL CHIP	10K 5% 1/10W	R313	1-216-295-00	METAL CHIP	0 5% 1/10W
R175	1-216-105-00	METAL CHIP	220K 5% 1/10W	R314	1-216-049-00	METAL CHIP	1K 5% 1/10W
R177	1-216-081-00	METAL CHIP	22K 5% 1/10W	R316	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R180	1-216-081-00	METAL CHIP	22K 5% 1/10W	R317	1-216-065-00	METAL CHIP	4.7K 5% 1/10W
R181	1-216-049-00	METAL CHIP	1K 5% 1/10W	R318	1-216-049-00	METAL CHIP	1K 5% 1/10W
R204	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R319	1-216-089-00	METAL CHIP	47K 5% 1/10W
R205	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R320	1-216-089-00	METAL CHIP	47K 5% 1/10W
R206	1-216-061-00	METAL CHIP	3.3K 5% 1/10W	R321	1-216-105-00	METAL CHIP	220K 5% 1/10W
R207	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R322	1-216-105-00	METAL CHIP	220K 5% 1/10W
R208	1-216-079-00	METAL CHIP	18K 5% 1/10W	R323	1-216-049-00	METAL CHIP	1K 5% 1/10W
R209	1-216-117-00	METAL CHIP	680K 5% 1/10W	R324	1-216-073-00	METAL CHIP	10K 5% 1/10W
R210	1-216-091-00	METAL CHIP	56K 5% 1/10W	R325	1-216-073-00	METAL CHIP	10K 5% 1/10W
R211	1-216-073-00	METAL CHIP	10K 5% 1/10W	R326	1-216-073-00	METAL CHIP	10K 5% 1/10W
R215	1-216-097-00	METAL CHIP	100K 5% 1/10W	R327	1-216-081-00	METAL CHIP	22K 5% 1/10W
R216	1-216-073-00	METAL CHIP	10K 5% 1/10W	R328	1-216-113-00	METAL CHIP	470K 5% 1/10W
R217	1-216-089-00	METAL CHIP	47K 5% 1/10W	R329	1-216-073-00	METAL CHIP	10K 5% 1/10W
R218	1-216-073-00	METAL CHIP	10K 5% 1/10W	R330	1-216-073-00	METAL CHIP	10K 5% 1/10W
R219	1-216-081-00	METAL CHIP	22K 5% 1/10W	R331	1-216-073-00	METAL CHIP	10K 5% 1/10W
R220	1-216-105-00	METAL CHIP	220K 5% 1/10W	R332	1-216-073-00	METAL CHIP	10K 5% 1/10W
R221	1-216-111-00	METAL CHIP	390K 5% 1/10W	R401	1-216-043-00	METAL CHIP	560 5% 1/10W
R222	1-216-097-00	METAL CHIP	100K 5% 1/10W	R402	1-216-077-00	METAL CHIP	15K 5% 1/10W
R223	1-216-073-00	METAL CHIP	10K 5% 1/10W	R403	1-216-081-00	METAL CHIP	22K 5% 1/10W
R224	1-216-121-00	METAL CHIP	1M 5% 1/10W	R404	1-216-089-00	METAL CHIP	47K 5% 1/10W
R225	1-216-089-00	METAL CHIP	47K 5% 1/10W	R405	1-216-085-00	METAL CHIP	33K 5% 1/10W
R226	1-216-045-00	METAL CHIP	680 5% 1/10W	R406	1-216-073-00	METAL CHIP	10K 5% 1/10W
R227	1-216-045-00	METAL CHIP	680 5% 1/10W	R407	1-216-073-00	METAL CHIP	10K 5% 1/10W
R228	1-216-097-00	METAL CHIP	100K 5% 1/10W	R408	1-216-089-00	METAL CHIP	47K 5% 1/10W
R234	1-216-089-00	METAL CHIP	47K 5% 1/10W	R409	1-216-069-00	METAL CHIP	6.8K 5% 1/10W
R235	1-216-073-00	METAL CHIP	10K 5% 1/10W	R410	1-216-085-00	METAL CHIP	33K 5% 1/10W
R236	1-216-049-00	METAL CHIP	1K 5% 1/10W	R411	1-216-085-00	METAL CHIP	33K 5% 1/10W
R237	1-216-295-00	METAL CHIP	0 5% 1/10W	R412	1-216-079-00	METAL CHIP	18K 5% 1/10W
R301	1-216-071-00	METAL CHIP	8.2K 5% 1/10W	R413	1-216-052-00	METAL CHIP	1.3K 5% 1/10W
R302	1-216-089-00	METAL CHIP	47K 5% 1/10W	R414	1-216-045-00	METAL CHIP	680 5% 1/10W
R303	1-216-049-00	METAL CHIP	1K 5% 1/10W	R415	1-216-081-00	METAL CHIP	22K 5% 1/10W
R304	1-216-081-00	METAL CHIP	22K 5% 1/10W	R416	1-216-081-00	METAL CHIP	22K 5% 1/10W
R305	1-216-073-00	METAL CHIP	10K 5% 1/10W	R417	1-216-047-00	METAL CHIP	820 5% 1/10W
R306	1-216-081-00	METAL CHIP	22K 5% 1/10W	R418	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R307	1-216-081-00	METAL CHIP	22K 5% 1/10W	R419	1-216-051-00	METAL CHIP	1.2K 5% 1/10W
R308	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R420	1-216-029-00	METAL CHIP	150 5% 1/10W
R309	1-216-065-00	METAL CHIP	4.7K 5% 1/10W	R421	1-216-081-00	METAL CHIP	22K 5% 1/10W
R310	1-216-295-00	METAL CHIP	0 5% 1/10W				

TR-40 TS-74 (L) TS-74 (R)

Ref. No.	Part No.	Description	Remark
		(JACK)	
J401	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO OUT)	
J402	1-566-847-41	CONNECTOR, (S) TERMINAL 4P (S VIDEO IN)	
		(VARIABLE RESISTOR)	
RV401	1-230-694-11	RES. VAR. CARBON 250K	
		(SWITCH)	
S401	1-553-725-21	SWITCH, SLIDE (SYNC INT/EXT)	
S402	1-553-725-21	SWITCH, SLIDE (EDIT)	

	* A-7070-628-A	TS-74 (L) BOARD, COMPLETE	

		(TRANSISTOR)	
Q715	8-729-700-08	TRANSISTOR NJL714E	

	* A-7070-627-A	TS-74 (R) BOARD, COMPLETE	

		(TRANSISTOR)	
Q715	8-729-700-08	TRANSISTOR NJL714E	

		MISCELLANEOUS	

C901	1-161-057-00	CERAMIC 0.033uF 10% 50V (ON M906)	
C902	1-161-057-00	CERAMIC 0.033uF 10% 50V (ON M904)	
M902	8-835-304-11	MOTOR, DC U-11B (REEL)	
M901	A-7048-201-A	DRUM ASSY (DGH-35-A-R) (DRUM)	
M903	8-835-364-01	MOTOR, DC BHF-2802B (CAPSTAN)	
M904	X-3711-936-1	MOTOR ASSY, FL (CASSETTE LOADING)	
M905	8-835-138-01	MOTOR, DC (DNR-5301B) (CONTROL)	
M906	A-7040-065-A	MOTOR ASSY, L (LOADING)	
M907	1-541-360-21	MOTOR, DC BLUSHLESS FAN	
PM901	1-454-377-31	SOLENOID, PLUNGER	

Ref. No.	Part No.	Description	Remark
S901	1-570-407-11	SWITCH, SLIDE (CASSETTE LOADING)	
S903	1-553-226-00	SWITCH, LEAF (CASSETTE LOCK)	
S904	1-572-298-21	SWITCH, PUSH (REC PROOF, MPH, ME/MP)	

		ACCESSORY & PACKING MATERIAL	

	* 3-697-977-51	INDIVIDUAL CARTON	
	* 3-697-978-01	CUSHION (UPPER)	
	* 3-697-979-01	CUSHION (LOWER)	
	* 3-704-350-01	SHEET (STANDARD), PROTECTION	
	3-753-324-21	MANUAL, INSTRUCTION (ENGLISH)	
	3-753-324-31	MANUAL, INSTRUCTION (FRENCH)	
	* 3-795-581-21	SAFEGUARD (SONY), IMPORTANT	

		HARDWARE LIST	

#1	7-621-255-45	SCREW +BVTT 2X6 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
#3	7-682-555-09	SCREW +P 3X30	
#4	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
#5	7-621-772-10	SCREW +B 2X4	
#6	7-621-255-65	SCREW +P 2X10	
#7	7-627-553-28	SCREW, PRECISION +P 2X2.5	
#8	7-621-255-25	SCREW +P 2X4	
#9	7-624-102-04	STOP RING 1.5, TYPE-E	
#10	7-624-105-04	STOP RING 2.3, TYPE-E	
#11	7-628-253-20	SCREW +PS 2X6	
#12	7-628-253-00	SCREW +PSW 2X4	
#13	7-627-553-48	SCREW, PRECISION +P 2X4	
#14	7-621-255-50	SCREW +P 2X8	
#15	7-624-106-04	STOP RING 3.0, TYPE-E	
#16	7-627-553-68	SCREW (±M2X6), SPECIAL	
#17	7-621-255-15	SCREW +PTT 2X3 (S)	
#18	7-621-255-20	SCREW +P 2X4	
#19	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
#20	7-671-154-01	STEEL, BALL	

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< VARIABLE RESISTOR >				Q703	8-729-140-88	TRANSISTOR FP1A3M	
RV101	1-230-875-21	RES, ADJ, METAL 220K		Q704	8-729-140-88	TRANSISTOR FP1A3M	
RV102	1-230-875-21	RES, ADJ, METAL 220K		Q705	8-729-140-88	TRANSISTOR FP1A3M	
RV103	1-230-871-11	RES, ADJ, METAL 22K		Q706	8-729-140-88	TRANSISTOR FP1A3M	
RV104	1-230-871-11	RES, ADJ, METAL 22K		Q707	8-729-140-88	TRANSISTOR FP1A3M	
RV105	1-230-870-11	RES, ADJ, METAL 10K		Q708	8-729-140-88	TRANSISTOR FP1A3M	
RV106	1-230-870-11	RES, ADJ, METAL 10K		Q709	8-729-900-53	TRANSISTOR DTC114EK	
RV201	1-230-873-11	RES, ADJ, METAL 47K		Q710	8-729-900-53	TRANSISTOR DTC114EK	
RV203	1-230-869-11	RES, ADJ, METAL 4.7K		Q711	8-729-900-53	TRANSISTOR DTC114EK	
RV204	1-230-869-11	RES, ADJ, METAL 4.7K		Q712	8-729-900-53	TRANSISTOR DTC114EK	
RV301	1-230-868-11	RES, ADJ, METAL 2.2K		Q713	8-729-900-53	TRANSISTOR DTC114EK	
RV302	1-230-868-11	RES, ADJ, METAL 2.2K		Q714	8-729-900-53	TRANSISTOR DTC114EK	
RV303	1-230-869-11	RES, ADJ, METAL 4.7K		Q715	8-729-900-53	TRANSISTOR DTC114EK	
RV304	1-230-873-11	RES, ADJ, METAL 47K		< RESISTOR >			
< CRYSTAL >				R701	1-216-013-00	METAL CHIP 33 5K 1/10W	
X001	1-577-116-21	CRYSTAL (16MHz)		R702	1-216-013-00	METAL CHIP 33 5K 1/10W	
X002	1-567-346-11	OSCILLATOR, CERAMIC (5MHz)		R703	1-216-013-00	METAL CHIP 33 5K 1/10W	
X003	1-567-346-11	OSCILLATOR, CERAMIC (5MHz)		R704	1-216-013-00	METAL CHIP 33 5K 1/10W	
X004	1-567-160-21	RESONATOR, CERAMIC (4.19MHz)		R705	1-216-013-00	METAL CHIP 33 5K 1/10W	
X101	1-567-505-11	OSCILLATOR, CRYSTAL (3.58MHz)		R706	1-216-013-00	METAL CHIP 33 5K 1/10W	
*****				R707	1-216-013-00	METAL CHIP 33 5K 1/10W	
* 1-633-699-11 TC-20 BOARD				R708	1-216-013-00	METAL CHIP 33 5K 1/10W	
*****				R709	1-216-029-00	METAL CHIP 150 5K 1/10W	
1-809-338-11 INDICATOR, LED				R710	1-216-029-00	METAL CHIP 150 5K 1/10W	
< CAPACITOR >				R711	1-216-029-00	METAL CHIP 150 5K 1/10W	
C701	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R712	1-216-029-00	METAL CHIP 150 5K 1/10W	
C702	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R713	1-216-029-00	METAL CHIP 150 5K 1/10W	
C703	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R714	1-216-029-00	METAL CHIP 150 5K 1/10W	
C704	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		R715	1-216-029-00	METAL CHIP 150 5K 1/10W	
C705	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		*****			
C706	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		* 1-633-700-11 TR-40 BOARD			
C707	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		*****			
C708	1-135-162-21	TANTALUM CHIP 33uF 20% 6.3V		< CONNECTOR >			
< TRANSISTOR >				CN401	1-506-484-11	CONNECTOR 5P, MALE	
Q701	8-729-140-88	TRANSISTOR FP1A3M		CN402	1-506-487-11	CONNECTOR 8P, MALE	
Q702	8-729-140-88	TRANSISTOR FP1A3M		CN403	1-506-481-11	CONNECTOR 2P, MALE	

7-1-2. PERIODIC CHECK

Perform the maintenance and periodic checks described below in accordance with the operational hour of the unit.

○: Cleaning ◆: Replacement ◇: Checking ■: Oiling

Location			Hours of Use (H): MENU No. (Drum rotation)										Reference
	Parts Name	Parts No.	500	1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	Section
Tape Path	Tape Path surface	—	○	○	○	○	○	○	○	○	○	○	7-1-1
	Upper Drum Ass'y (DGR-35-R)	A-7049-188-A	○	◇	○	◇	○	◇	○	◇	○	◇	7-2-2
	Drum Ass'y (DGH-35A-R)	A-7048-201-A	○	◇	○	◇	○	◇	○	◇	○	◇	7-2-3
	Pinch Roller Arm Ass'y	X-3686-576-1	○	○	○	○	○	○	○	○	○	○	7-2-5
	(Note 4:) Capstan shaft bearing	8-835-364-01	—	■	—	■	—	■	—	■	—	■	—
Drive System	Threading motor belt	3-686-546-01	○	○	○	○	○	○	○	◆	○	○	7-2-7
	Blake plunger	1-454-377-31	—	—	—	○	—	—	—	○	—	—	7-2-20
	Threading motor	A-7040-065-A	—	◇	—	◇	—	◇	—	◇	—	◇	7-2-7
	Control motor	8-835-138-01	—	◇	—	◇	—	◇	—	◇	—	◇	7-2-21
	Reel motor	8-835-304-11	—	◇	—	◇	—	◇	—	◇	—	◇	7-2-8
	T Reel Table Ass'y	X-3711-998-1	○	○	○	○	○	○	○	○	○	○	7-2-14
	S Reel Table Ass'y	X-3713-427-1	○	○	○	○	○	○	○	○	○	○	7-2-13
	T*Main Brake Ass'y	X-3686-574-1	—	◇	—	◇	—	◇	—	◇	—	◇	—
	S*Main Brake Ass'y	X-3713-429-1	—	◇	—	◇	—	◇	—	◇	—	◇	—
	T*S Brake Ass'y	X-3711-987-2	—	◇	—	◇	—	◇	—	◇	—	◇	—
	REW Brake Ass'y	X-3711-993-1	—	◇	—	◇	—	◇	—	◇	—	◇	—
	Tension Regulator Band Ass'y	X-3686-531-1	—	◇	—	◇	—	◇	—	◇	—	◇	7-2-16
	Roller (Cassette-up Compartment)	3-713-466-01	—	—	—	—	—	○	—	—	—	—	—
Performance Check	Abnormal-noise	—	◇	◇	◇	◇	◇	◇	◇	◇	◇	◇	—
	FWD Back tension measurement	—	—	◇	—	◇	—	◇	—	◇	—	◇	7-3-5
	Brake torque measurement	—	—	◇	—	◇	—	◇	—	◇	—	◇	7-3-1 to 7-3-3
	FWD, RVS torque measurement	—	—	◇	—	◇	—	◇	—	◇	—	◇	7-3-4

Note 1: When overhauling the unit, refer to the items above for replacement of parts.

Note 2: The time of parts replacement will differ with operating environment

Note 3: Be sure to clean the tape path surface in repairing.

Note 4: Oiling to the Capstan Shaft Bearing.

Apply one-half drop of oil to the Capstan Shaft Bearing.
(Never apply oil to the tape path surface.)

SECTION 7 MECHANICAL ADJUSTMENT

7-1. PERIODIC CHECK AND MAINTENANCE

It is recommended that the following periodic check and maintenance schedule are employed in order to obtain maximum performance of the unit and longer tape life.

7-1-1. MAINTENANCE AFTER REPAIRS

Perform the following maintenance after repair regardless the operating hours of the unit.

(1) Cleaning of the Rotary Upper Drum

- Press the cleaning piece moistend with cleaning fluid lightly against the Rotary Upper Drum and turn slowly the Upper Drum counterclockwise with a hand.

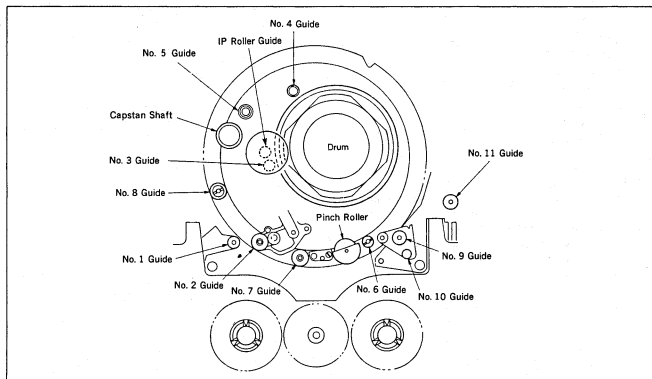
Note: Never turn the Upper Drum by the electric power and never turn the Upper Drum clockwise with a hand. Never move the cleaning piece in the vertical direction of head tips in the cleaning. It tends to damage the video head tips. Please follow the instruction above for cleaning.












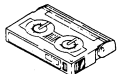
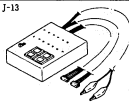

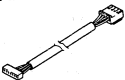
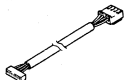

2) Cleaning of Tape Running System (fig.1)

- Put the cassette compartment into the EJECT completion mode and clean the tape running system (No.1 thru No.11 Guides, Capstan Shaft, Pinch Roller and IP Roller Guide) with cleaning piece moistend with the cleaning fluid.

(3) Cleaning of Drive System

- Clean the Drive system (reel table surface, belt and timing belt) with cleaning piece moistend with the cleaning fluid.



J-1 	J-2 	J-3 	J-4 
J-5 	J-6 	J-7 	J-8 
J-9 	J-10 	J-11 (Packed with the rotary upper drum for repair) 	J-12 
J-13 	J-14 	J-15 	J-16 
J-17 			

7-1-3. SERVICING TOOLS

Ref. No.	Parts No.	Description	Application
J-1	Y-2031-001-1	Cleaning Fluid	Cleaning
J-2	7-741-900-53	Wiping Cloth	Cleaning
J-3	Commercially sold	Head Degausser	Head degauss
J-4	J-6080-840-A	Small Adjustment Mirror	Tape path adjustment
J-5	8-967-995-02	Alignment Tape, WR5-1NP	Tape path adjustment
	8-967-995-13	Alignment Tape, WR5-7NE	Video frequency response adjustment
	8-967-995-42	Alignment Tape, WR5-5NSP	Video adjustment
	8-967-995-43	Alignment Tape, WR5-8NSE	Serve, audio and video adjustment (SP)
	8-967-995-52	Alignment Tape, WR5-8NLE	Servo, audio and video adjustment (LP)
J-6	J-6080-827-A	Dial Tension Gauge	Measurement of torque
J-7	J-6080-831-A	Tension Measurement Reel	FWD Back tension adjustment
J-8	J-6080-832-A	Tension Measurement Reel	Brake torque check
J-9	J-6080-823-A	No. 10 Gear Phase Tool	Threading ring assembly replacement
J-10	J-6080-826-A	No. 6 Guide Lock Screwdriver	Tape path adjustment
J-11	—	Rotary Drum Tool (packed with the Rotary Upper Drum for repair)	Rotary upper drum replacement
J-12	J-6080-824-A	FWD, RVS Winding Torque Cassette	S-T reel table winding torque check
J-13	J-6080-825-A	Mode Selector	Mechanical check, adjustment and replacement
J-14	J-6080-891-A	Track Shift Tool	Tape path adjustment
J-15	J-6080-883-A	RE/SWP Connector	Tape path adjustment
J-16	J-6080-884-A	CTL Connector	Tape path adjustment
J-17	7-700-766-01	Hexagonal Screwdriver (0.89 mm)	Tape path adjustment

7-2. REPLACEMENT OF MAJOR PARTS

PREPARATION FOR REPLACEMENT OF PARTS

Replacement of some parts use the *Mode Selector. The mode (☐ marked mode) in the replacement procedure is set by pressing the button on the Mode Selector.

*It is a kind of tool.

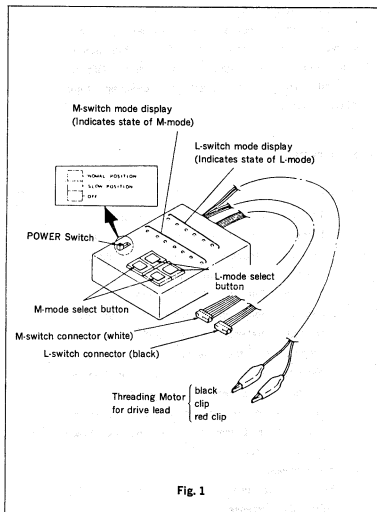
Part No. : J-6080-825-A

. Operation of Mode selector

1. Location of parts and controls (fig. 1)

2. Connection (fig. 2)

- (1) Remove the Front Panel, Top Plate and Bottom Plate referring to Section 2-1.
- (2) Remove the Mecha Deck Block from the unit referring to Section 2-5.
- (3) Remove the MB-19, MD-23, HK-4 and SE-10 Boards from the unit referring to Sections 2-8, 2-9 and 2-10.
- (4) Disconnect the connectors (6P) on the MS-4 and LS-9 Boards.
- (5) Connect the 6P connector (six harness, white) for the M-switch of the Mode Selector to the MS-4 Board.
- (6) Connect the 6P connector (four harness, black) for the L-switch of the Mode Selector to the LS-9 Board.
- (7) Remove the cover of the Threading Motor.
- (8) Connect the red clip of the Threading Motor driver lead to the red terminal of the Threading Motor and the black clip to the brown terminal.



7-1-4. HOW TO USE THE CLEANING TAPE

Cleaning Tape: V8-25CLH (separately available)

. Never use the cleaning tape, V8-25CLN.

- (1) When the rotary heads clog and head cleaning described Section 3-1 can not clean the heads, use the cleaning tape.

If use the cleaning tape except for the above, it will shorten the life of the heads.

- (2) The one time cleaning is within fifteen seconds and never reuse the cleaning tape after rewinding.

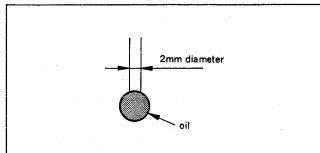
7-1-5. OTHERS

(1) Sony oil

- . Be sure to use the Sony oil as the lubrication oil. (If other oil is used, various troubles due to different viscosity tends to be caused.)

Sony oil: Part No. 7-661-018-18

- . Use the Sony oil in which dust or other foreign material have not mixed for lubricating the bearing. (If foreign material is in the oil, wear or burning of the bearing tends to be caused.)
- . One drop of oil means the amount which sticks to a 2 mm diameter rod, as shown in the figure.



(2) Sony grease

- . Be sure to use the Sony grease as the lubrication grease.

Sony grease: Part No. 7-662-001-62

(SGL-501)

(3) MOLYTONE GREASE

- . Be sure to use the MOLYTONE GREASE as the lubrication grease.

MOLYTONE GREASE: Part No. 7-662-001-41

(No. 320)

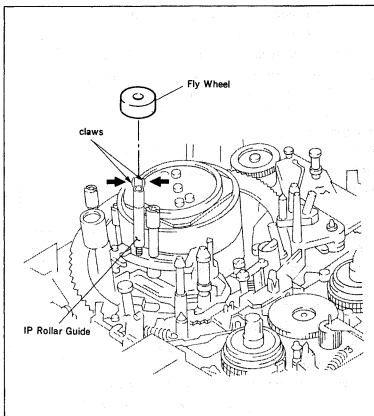
7-2-1. REPLACEMENT OF THE FLY WHEEL

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Fly Wheel while picking the claws.

Installation:

- (1) Replace the Fly Wheel with a new one. Insert the Fly Wheel in the IP Roller Guide from the big hole side until click sound can be heard.



3. Note

- (1) When operating L-switch, be sure to set the mode of M-switch to LOADING/ UNLOADING mode.
- (2) When operating M-switch, be sure to set the mode of L-switch to LOADING TOP or LOADING END mode.

4. Operation

When L-mode or M-mode does not set in each mode during mode selection, the BLANK position lights up.

(1) L-mode

- When the right side L-mode select button is pressed continuously, the mode changes from LOADING TOP to LOADING END in order from left.
- When the mode changes from LOADING END to LOADING TOP in order, press the left side L-mode select button continuously.
- When the power switch is set to the SLOW position, the L-mode operates more slowly than the NORMAL position.

(2) M-mode

- When performing EJECT, set the mode of L-switch to LOADING TOP.
- When performing from FF/REW to RVS or from RVS to FF/REW, set the mode of L-switch to LOADING END.
- When the right side M-mode select button is pressed continuously, the mode changes from EJECT to RVS in order from left.
- When the mode changes from RVS to EJECT, press the left side M-mode select button continuously.

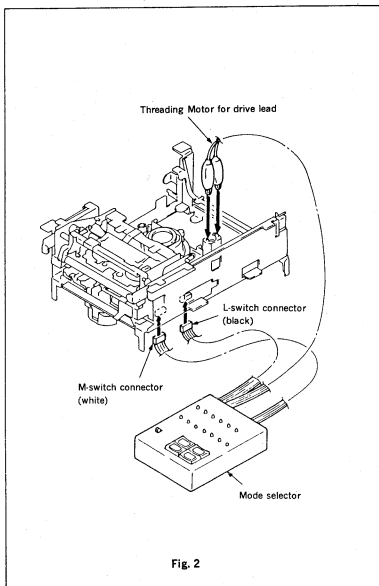


Fig. 2

7-2-2. REPLACEMENT OF THE ROTARY UPPER DRUM

- The video heads can not be replaced as a single parts. Replace the whole Rotary Upper Drum Assembly.
- There is a relay PC Board (DH-6 Board) for the video and audio signals in the Rotary Upper Drum. It is not necessary to replace the DH-6 Board, if it is broken, replace the whole the Rotary Upper Drum Assembly.

Tools: Rotary Drum Tool (Ref No. J-11)
It is packed together with the Repair Rotary Upper Drum.)
L-shaped wrench
(across flat has 1.5 mm)

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Fly Wheel referring to Section 7-2-1.
- (3) Remove the two screws (M2 X 2.7) and remove the Dynamic Damper.
- (4) Unsolder the ten terminals at A positions. Check that the terminals which are projected out from the PC Board move freely with a pair of tweezers, etc. (fig. 1)
- (5) Remove the two screws (M2 X 5).
- (6) Install the tool A to the two screw holes of installing the Dynamic Damper with the two accessory supplied screws. Thread the accessory supplied hexagon screw into the center hole of the tool A, and remove the Rotary Upper Drum. (fig. 2)

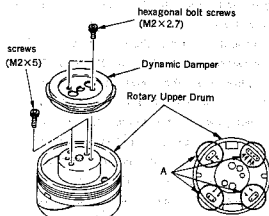


Fig. 1

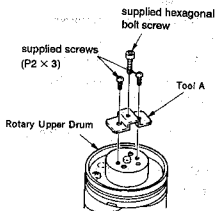


Fig. 2

Installation:

- (1) Clean the flange surface of the Lower Drum and the contact point of the new Rotary Upper Drum with a cleaning piece. Check that no dust or flaw are left.
- (2) While adjusting the positional relationship of the Rotary Upper Drum and positioning hole with the tool B, insert the Rotary Upper Drum lightly. At this time, Check that the terminals project out from the PC Board of the Rotary Upper Drum. When the terminals are caught, correct them with a pair of tweezers, etc.. Remove the tool B and lightly push the Rotary Upper Drum by hand. If the Rotary Upper Drum does not down to the bottom, thread the two fixing screws to the Rotary Upper Drum alternately, but do not tighten them. Insert the tool B in the positioning hole and check that the tool B can be inserted smoothly again. If the tool B can not be inserted, loosen the two screws (M 2 X 5) and adjust the position of the Rotary Upper Drum by precision screwdriver. (fig. 3 and 4)

(3) Tighten the two screws (M2 X 5).

- (4) Assemble the parts with Removal Steps (1) to (4) in reverse order.

Note: Do not tighten all the screws too strongly.

Be carefull not to flow solder below the PC Board.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.

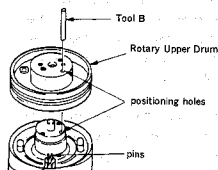


Fig. 3

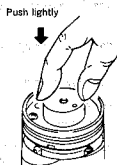


Fig. 4

7-2-3. REPLACEMENT OF THE DRUM ASSEMBLY

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the Fly Wheel referring to Section 7-2-1.
- (4) Open the HR-4 and SE-10 Boards referring to Sections 2-9 and 2-10.
- (5) Remove the two fixing screws and remove the Flexible Cover. (fig. 1)
- (6) Disconnect the connectors (CN805, 806) on the MD-23 Board and disconnect the connector (CN001) on the FR-40 Board.
- (7) Remove the fixing screw and remove the Shaft Ground Terminal.
- (8) Remove the two fixing screws and remove the Drum Assembly. (fig. 2)

Note: At this time, be careful that the Drum Assembly does not touch the No. 3 Guide and the IP Roller Guide, etc..

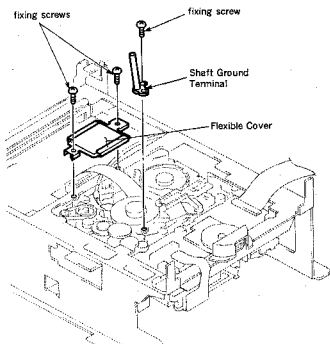


Fig. 1

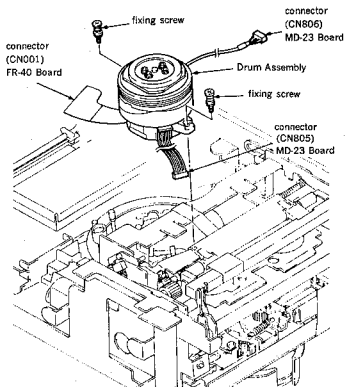


Fig. 2

Installation:

- (1) Clean the flange surface of the new Drum Assembly and the contact point of the mechanical chassis with a cleaning piece.

- (2) Set the Drum Assembly to the two projections of the Mecha chassis and tighten the two fixing screws.

Note: At this time, be careful that the screwdriver does not touch the head chips. (fig. 3)

- (3) Peel off the tape from the Rotor and FG Stator of the Drum Assembly.

- (4) Clean the shaft of the Drum Assembly with a cleaning piece.

- (5) Clean the Shaft Ground Terminal which contact to the Drum Shaft with a cleaning piece and set the Shaft Ground Terminal to the projection of mechanical chassis and tighten the fixing screw.

- (6) Assemble the parts with Removal Steps (1) to (6) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.

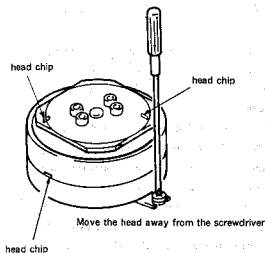


Fig. 3

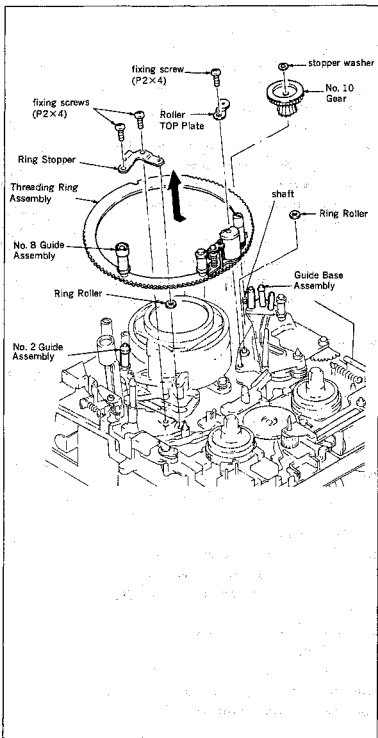
7-2-4. REPLACEMENT OF THE THREADING RING ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)
No. 10 Gear Phase Tool
(Ref. No. J-9)
Sony Oil

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Press the L-mode select button of the Mode Selector and move the Guide Base Assembly and the No. 2 Guide Assembly until just before it is locked. (Do not move the Threading Ring Assembly.)
- (3) Remove the stopper washer and remove the No. 10 Gear Assembly.
- (4) Remove the fixing screw and remove the Roller Top Plate and Ring Roller.
- (5) Remove the two fixing screws and remove the Ring Stopper and Ring Roller.
- (6) Remove the Threading Ring Assembly in the direction of the arrow.

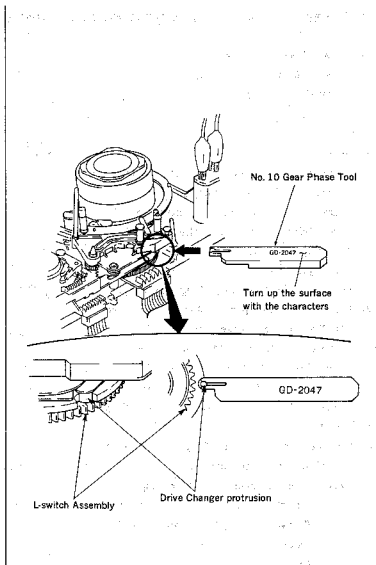
Note: When removing the Threading Ring Assembly, be careful that the Threading Ring Assembly does not touch the Drum and Capstan Shaft.



Installation:

- (1) Replace the Threading Ring Assembly with a new one.
- (2) Install the Threading Ring Assembly so that it puts into the unthreading mode. The Pinch Roller Arm Assembly is the Reel Table side. (Check that each assembly is put into the Step (2) at removal procedure.)
- (3) Install the Ring Roller and Ring Stopper and tighten them with two fixing screws. (Check that the No. 8 Guide Assembly is in front of Ring Stopper.)
- (4) Install the Ring Roller and Roller Top Plate and tighten them with the screw. (Check that the Threading Ring Assembly matches the three Ring Rollers.)
- (5) Apply a half drop of oil on the shaft.
- (6) Check that the pin of the Drive Changer Assembly is into the notch of the L-switch Assembly. Insert the No. 10 Gear Phase Tool (Ref. No. J-9) into the notch of the L-SW Assembly.
- (7) While pushing the No. 8 Guide Assembly against the Ring Stopper, install the No.10 Gear Assembly with a stopper washer.
- (8) Pull out the No. 10 Gear Phase Tool.
- (9) Press the L-mode select button of the Mode Selector and set to the LOADING TOP mode.
- (10) Install the Cassette-up Compartment Assembly referring to Section 2-13.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.



7-2-5. REPLACEMENT OF THE PINCH ROLLER ARM ASSEMBLY

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the stopper washer. (fig. 1)
- (4) Hook the spring which is hooked to the No. 7 Guide Assembly to the groove of the Pinch Roller Arm (fig. 2)
- (5) Turn the Pinch Roller Arm Assembly in the direction of the arrow. (fig. 3)
- (6) Remove the Pinch Roller Arm Assembly in the direction of the arrow. (fig. 4)
- (7) Remove the spring. (fig. 5)

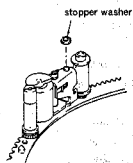


Fig. 1

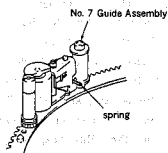


Fig. 2

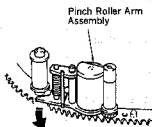


Fig. 3

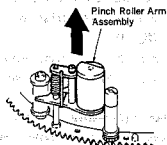


Fig. 4

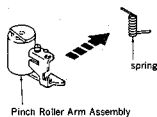


Fig. 5

Installation:

- (1) Replace the Pinch Roller Arm Assembly with a new one.
- (2) Install the spring and hook the ends of the spring to the Pinch Roller Arm Assembly. (fig. 1)
- (3) Insert the end of the clip or another thin rod into the hole of the Pinch Roller Arm Assembly. (fig. 2 and 3)
- (4) Put the end of the clip to the shaft of the Threading Ring Assembly and install the Pinch Roller Assembly. (fig. 4 and 5)
- (5) Hook the end of the spring to the No. 7 Guide Assembly.
- At this time, check that the another end of the spring is hooked to "A". (fig. 6)
- (6) Assemble the parts with Removal Steps (1) to (3) in reverse order.

After replacement, perform the Tape Path Check referring to Section 7-4-6.

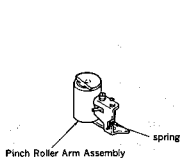


Fig. 1

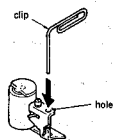


Fig. 2



Fig. 3

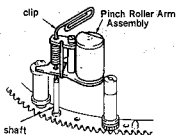


Fig. 4

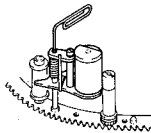


Fig. 5

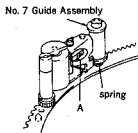


Fig. 6

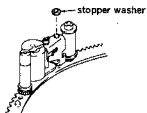


Fig. 7

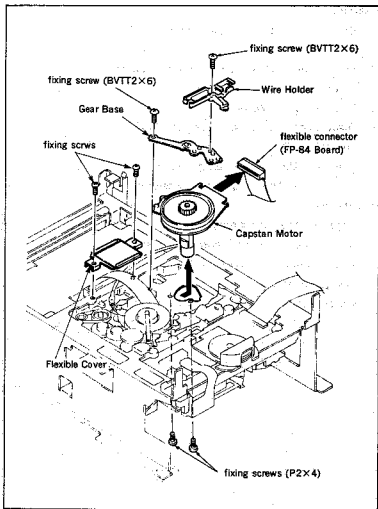
7-2-6. REPLACEMENT OF THE CAPSTAN MOTOR

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (4) Open the HK-4 and SE-10 Boards referring to Sections 2-9 and 2-10.
- (5) Remove the two fixing screws and remove the Flexible Cover.
- (6) Remove the harness of the Capstan Motor from the Wire Holder.
- (7) Remove the fixing screw and remove the Wire Holder.
- (8) Remove the fixing screw and remove the Gear Base.
- (9) Disconnect the flexible connector of the Capstan Motor.
- (10) Remove the two fixing screws and remove the Capstan Motor in the direction of the arrow.

Installation:

- (1) Replace the Capstan Motor with a new one and assemble the parts with Removal Steps (1) to (10) in reverse order.



7-2-7. REPLACEMENT OF THE THREADING MOTOR ASSEMBLY

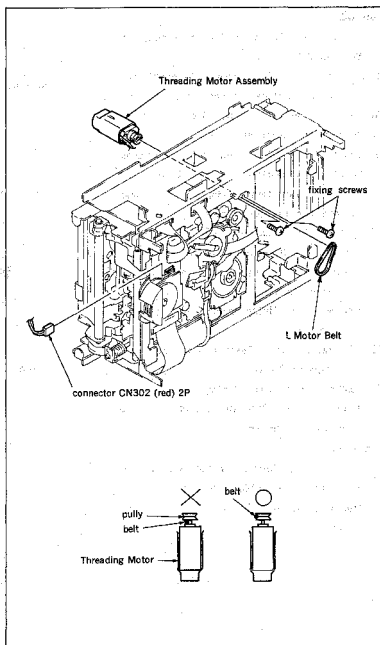
Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Open the HK-4 and SE-10 Boards referring to Section 2-9 and 2-10.
- (3) Remove the L Motor Belt.
- (4) Disconnect the connector (CN302) on the RS-31 Board.
- (5) Remove the two fixing screws and remove the Threading Motor Assembly.

Installation:

- (1) Replace the Threading Motor Assembly with a new one and assemble the parts with Removal Steps (1) to (5) in reverse order.

Note: Before installing the L Motor Belt, clean it with a cleaning piece and be sure to install the belt in the groove of pulley.



7-2-8. REPLACEMENT OF THE REEL MOTOR

Removal:

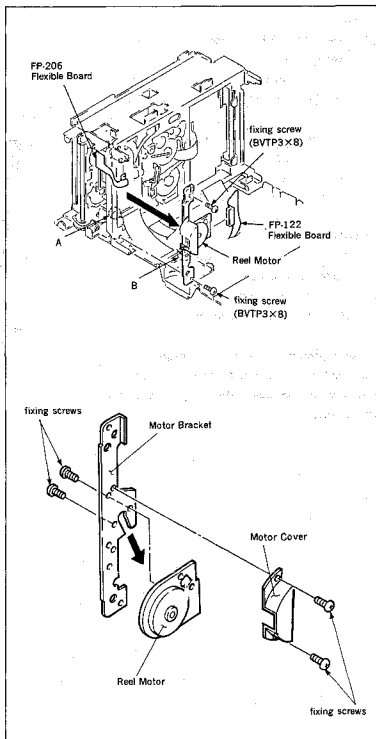
- (1) Open the HK-4 and SE-10 Boards referring to Section 2-9 and 2-10.
- (2) Remove the FP-122 Flexible Board from the PC Board of the Reel Motor.
- (3) Remove the FP-206 Flexible Board from the RS-31 Board.
- (4) Remove the two fixing screws of the Motor Bracket.
- (5) Insert a flatblade screwdriver into A, release the projection B and remove the Motor Bracket.

Note: If the Motor Bracket is removed by hand directly, it tends to damage the Motor Bracket.

- (6) Remove the two fixing screws and remove the Motor Cover from the Motor Bracket.
- (7) Remove the two fixing screws and remove the Reel Motor in the direction of the arrow.

Installation:

- (1) Replace the Reel Motor with a new one. Assemble the parts with Removal Steps (1) to (7) in reverse order.



7-2-9. REPLACEMENT OF THE No. 3 and No. 4 GUIDES

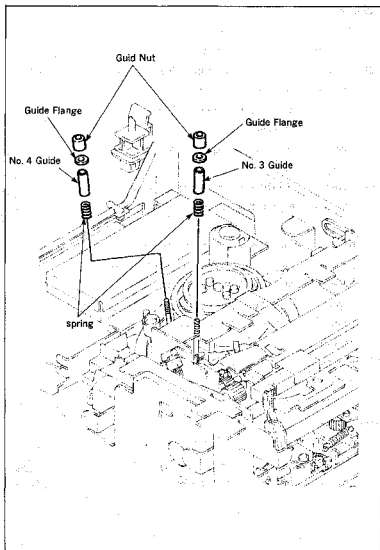
Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) When replacing the No. 3 Guide, remove the Fly Wheel referring to Section 7-2-1.
- (3) Turn the Rotary Upper Drum counterclockwise and keep heads away from the No. 3 Guide or No. 4 Guide.
- (4) Remove the Guide Nut and remove the Guide Flange, No. 3 Guide (or No. 4 Guide) and spring.

Installation:

- (1) Replace the No. 3 Guide (or No. 4 Guide) with a new one.
- (2) Assemble the parts with Removal Steps (1) to (4) in reverse order.

After replacement, adjust the height of the No. 3 and No. 4 Guides to meet the tape path condition of Section 7-4-6-3 by turning the Guide Nut.



7-2-10. REPLACEMENT OF THE ENTRANCE GUIDE (P) ASSEMBLY (No. 2 GUIDE ASSEMBLY)

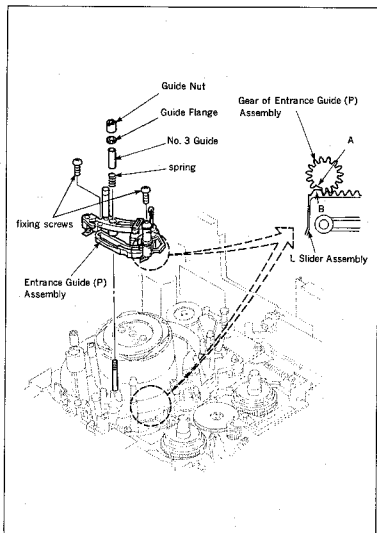
Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the Fly Wheel referring to Section 7-2-1.
- (4) Turn the Rotary Upper Drum counterclockwise and keep heads away from the Entrance Guide (P) Assembly.
- (5) Remove the Guide Nut and remove the Guide Flange, No. 3 Guide and spring.
- (6) Remove the two fixing screws and remove the Entrance Guide (P) Assembly.

Installation:

- (1) Check that the mechanical block is put into the LOADING TOP mode.
- (2) Replace the Entrance Guide (P) Assembly with a new one.
- (3) Engage the Entrance Guide (P) Assembly and L Slider Assembly so that their flat portions A and B are matched, and tighten it with two fixing screws.
- (4) Assemble the parts with Removal Steps (3) and (5) in reverse order.
- (5) Perform the FWD Back Tension Adjustment referring to Section 7-3-5.
- (6) Assemble the parts with Removal Steps (1) and (2) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.



7-2-11. REPLACEMENT OF THE SLANT GUIDE ASSEMBLY

Tool: Mode Selector (Ref. No. J-13)

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (3) Remove the fixing screw and E ring.
- (4) Remove the Slant Guide Block Assembly.

Installation:

- (1) Operate the L-mode select button of the Mode Selector and align the right edge of the L Slider Assembly and the right side of the Lock Slider M Assembly. (fig. 2)

Note: At this time, check that the position of the notch on the Slant Guide Drive Gear is placed as shown in figure 2.

- (2) Assemble the Guide Base Assembly of new Slant Guide Block Assembly the position of the *unthreading end.

*The Guide Base Assembly is the Reel Table side.

- (3) Assemble the parts with Removal Steps (1) to (3) in reverse order.

After replacement, perform the Tape Path Check referring to Section 7-4-6.

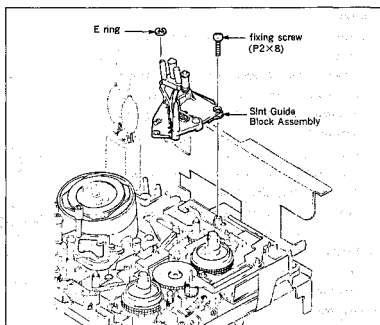


Fig. 1

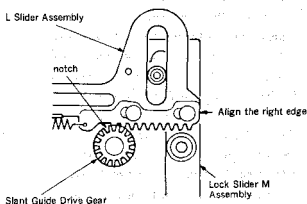


Fig. 2

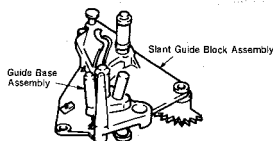


Fig. 3

7-2-12. REPLACEMENT OF THE No. 5 GUIDE BLOCK COMPLETE ASSEMBLY

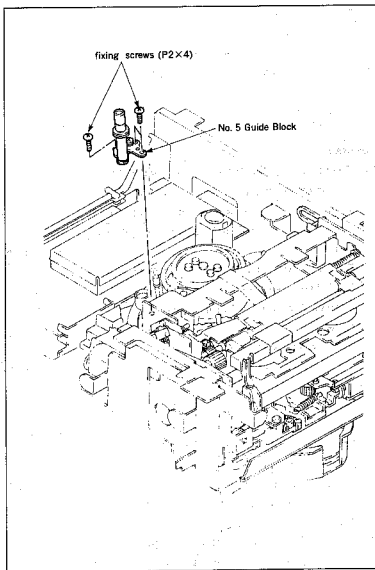
Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Turn the Rotary Upper Drum counterclockwise and keep heads away from the fixing screw of the Guide Block.
- (3) Remove the three fixing screws and remove the No. 5 Guide Block Complete Assembly.

Installation:

- (1) Replace the No. 5 Guide Block Complete Assembly with a new one.
- (2) Assemble the parts with Removal Steps (1) and (3) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.



7-2-13. REPLACEMENT OF THE S REEL TABLE ASSEMBLY

Tools: Mode Selector (Ref. No. J-14)

Cassette Tape

Dial Tension Gauge (Ref. No. J-6)

Tension Measurement Reel (30 mm dia.)
(Ref. No. J-7)

Sony Oil

Removal:

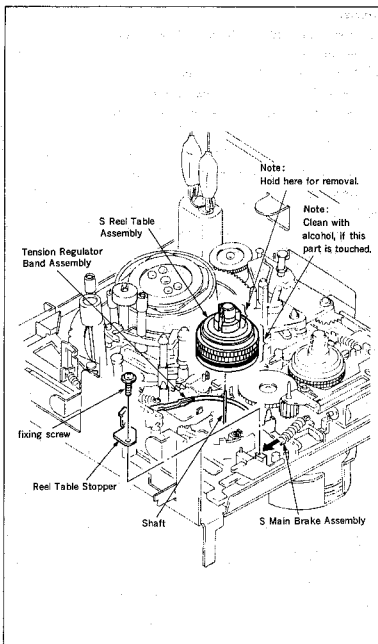
- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.
- (3) Remove the fixing screw and remove the Reel Table Stopper.

- (4) Remove the S Reel Table Assembly.

Note: Be sure to hold the upper reel claw when removing the S Reel Table. (Note of figure)

Installation:

- (1) Apply a half drop of oil on the top point of the Reel Shaft.
- (2) Move the S Main Brake Assembly in the direction of the arrow.
- (3) Install the new S Reel Table Assembly while being carefull not to pinch the Tension Regulator Band Assembly.
- (4) Install the Reel Table Stopper and tighten it with the fixing screw.
- (5) Press the M-mode select button of the Mode Selector and set to the **LOADING/UNLOADING** mode.
- (6) After replacement, perform the FWD running more than two minutes. Then, perform the FWD Back Tension Adjustment referring to Section 7-3-5.
- (7) Install the Cassette-up Compartment Assembly referring to Section 2-13.



7-2-14. REPLACEMENT OF THE T REEL TABLE ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)
Sony Oil

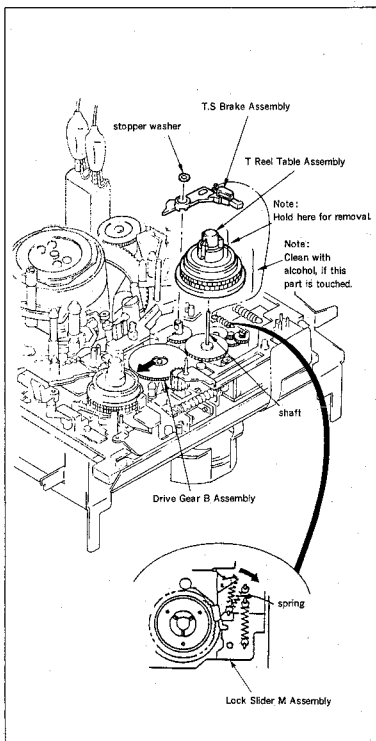
Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Press the L-mode select button of the Mode Selector and set to the UNLOADING WAIT mode.
- (3) Hook the spring which is hooked on the T.S Brake Assembly to the claw of the Lock Slider Assembly.
- (4) Remove the stopper washer and remove the T.S Brake Assembly.
- (5) Press the M-mode select button of the Mode Selector and set to the EJECT mode.
- (6) Move the Drive Gear B Assembly in the direction of the arrow.
- (7) Remove the T Reel Table Assembly.

Note: Be sure to hold the upper reel claw when removing the T Reel Table. (Note of figure)

Installation:

- (1) Apply a half drop of oil on the top point of the Reel Shaft.
- (2) Move the Drive Gear B Assembly in the direction of the arrow. (Check that the Mode Selector sets to EJECT mode.)
- (3) Replace the T Reel Table Assembly with a new one.
- (4) Assemble the parts with Steps (4) and (5) in reverse order.
- (5) Set the L-mode to LOADING TOP mode and set the M-mode to LOADING/UNLOADING mode.
- (6) Install the Cassette-up Compartment Assembly referring to Section 2-13.



7-2-15. REPLACEMENT OF THE PINCH PRESS ARM ASSEMBLY

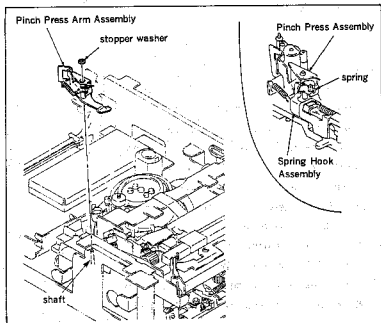
Tool: Sony Oil

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Hook the spring which is hooked to the Spring Hook Assembly to the Pinch Press Assembly as shown in the figure.
- (3) Remove the stopper washer and remove the Pinch Press Arm Assembly.

Installation:

- (1) Apply a half drop of oil on the shaft.
- (2) Replace the Pinch Press Arm Assembly with a new one.
- (3) Assemble the parts with Removal Steps (1) to (3) in reverse order.



7-2-16. REPLACEMENT OF THE TENSION REGULATOR ARM ASSEMBLY

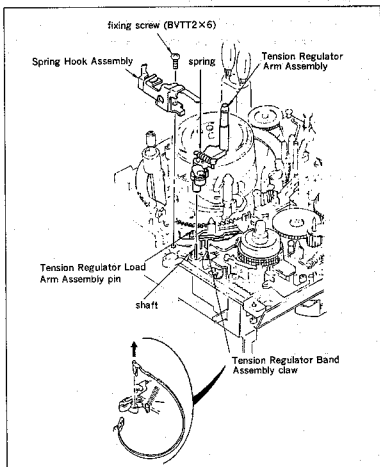
Tools: Mode Selector (Ref. No. J-13)

Sony Oil

Locking Compound

Removal:

- (1) Remove the Cassette-up Assembly referring to Section 2-13.
- (2) Replace the spring referring to Removal step (2) of Section 7-2-15.
- (3) Remove the spring which is hooked to the Tension Regulator Spring Hook Assembly.
(Make a note of the hooking position.)
- (4) Remove the fixing screw and remove the Tension Regulator Spring Hook Assembly.
- (5) Press the M-mode select button of the Mode Selector and set to the **FP/REW** mode.
- (6) Remove the claw of the Tension Regulator Band Assembly.
- (7) Remove the Tension Regulator Arm Assembly.



Installation:

- (1) Apply a half drop of oil on the shaft.
- (2) Replace the Tension Regulator Arm Assembly with a new one.
- (3) Install the Tension Regulator Arm Assembly while inserting the pin of the Tension Regulator Load Arm Assembly in the cam groove (on the back of the Arm) of the Tension Regulator Arm Assembly.
- (4) Install the claw of the Tension Regulator Band Assembly.

Note: Do not touch the inside of the band and bend it.

- (5) Press the M-mode select button of the Mode Selector and set to the LOADING/UNLOADING mode.
- (6) Install the Tension Regulator Spring Hook Assembly and tighten it with the fixing screw.
- (7) Smear the Locking Compound to the head of the fixing screw.
- (8) Assemble the Parts with Removal Steps (1) to (3) in reverse order.

After replacement, perform the Tape Path Check referring to Section 7-4-6.

7-2-17. REPLACEMENT OF THE TENSION REGULATOR BAND ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)

Cassette Tape

Dial Tension Gauge (Ref. No. J-6)

Tension Measurement Reel (30 mm dia.)
(Ref. No. J-7)

Removal:

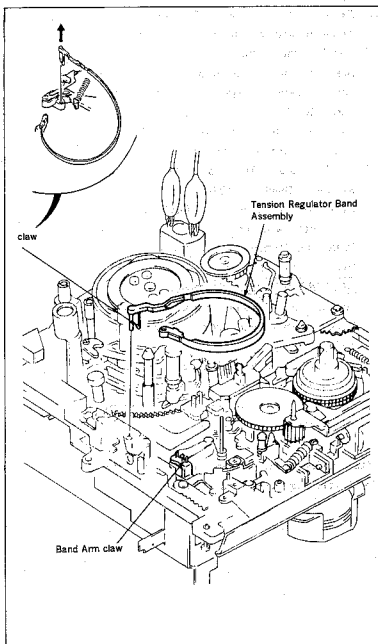
- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the S Reel Table Assembly referring to Removal of Section 7-2-13.
- (3) Release the claw of the Band Arm and remove one side of the Tension Regulator Band Assembly.
- (4) Release the claw from the Tension Regulator Arm Assembly and remove the Tension Regulator Band Assembly.

Installation:

- (1) Replace the Tension Regulator Band Assembly with a new one.
- (2) Install the Tension Regulator Band Assembly with Removal Steps (3) and (4) in reverse order.

Note: Do not touch the inside of the band and bend it.

- (3) Install the S Reel Table Assembly referring Installation of Section 7-2-13.
- (4) After replacement, perform the FWD running more than two minutes and then perform the FWD Back Tension Adjustment referring to Section 7-3-5.
- (5) Install the Cassette-up Compartment Assembly referring to Section 2-13.



7-2-18. REPLACEMENT OF THE L SLIDER ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)
Sony Grease

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the Fly Wheel referring to Section 7-2-1.
- (3) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (4) Remove the Entrance Guide (P) Assembly referring to 7-2-10.
- (5) Remove the Slant Guide Block Assembly referring to Section 7-2-11.
- (6) Press the L-mode select button of the Mode Selector and set to the **DRUM START** mode.
- (7) Remove the Slant Guide Drive Gear.
- (8) Remove the two stopper washers from the L Slider Assembly.
- (9) While pushing the projection of the RL Arm Assembly in the direction of the arrow, lift the right side of the L Slider Assembly and remove it from the shaft.
- (10) Lift the right side of the L Slider Assembly as shown in figure 2 and remove the pin of the Tension Regulator Load Arm Assembly from the cam groove of the Tension Regulator Arm Assembly, and then remove the L Slider Assembly.
- (11) Remove the stopper washer and remove the Tension Regulator Load Arm Assembly.

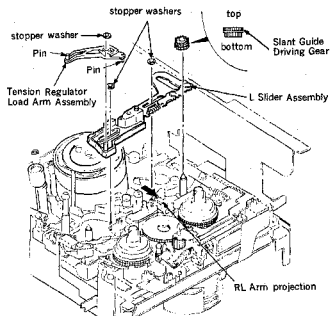


Fig. 1

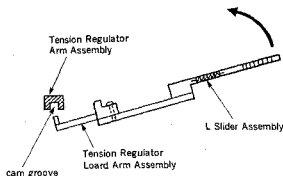


Fig. 2

Installation:

- (1) Replace the L Slider Assembly with a new one and smear Sony Grease to the three longitudinal holes as shown in figure 3.

- (2) Assemble the parts with Removal Steps (8) to (11) in reverse order.

Note: When inserting the pin of the Tension Regulator Load Arm Assembly in the cam groove of the Tension Regulator Arm Assembly, insert the another pin into the groove of the M Slider.

- (3) Press the L-mode select button of the Mode Selector and align the right edges of the L Slider Assembly and the Lock Slider M Assembly. (fig. 4)
- (4) Engage the Slant Guide Drive Gear with L Slider Assembly so that the notch of the Drive Gear is 1 tooth away from the left and gear of the L Slider Assembly as shown in the figure 4.
- (5) Assemble the parts with Removal Steps (1) to (5) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.

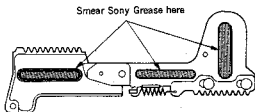


Fig. 3

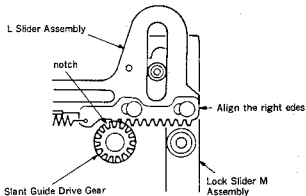


Fig. 4

7-2-19. REPLACEMENT OF THE L-SWITCH ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)
Sony Oil
Sony Grease

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the Fly Wheel referring to Section 7-2-1.
- (3) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (4) Remove the Entrance Guide (P) Assembly referring to Section 7-2-10.
- (5) Remove the Slant Guide Block Assembly referring to Section 7-2-11.
- (6) Remove the L Slider Assembly referring to Section 7-2-18.
- (7) Remove the Lock Slider Retainer.
- (8) Remove the tension spring which is hooked to the Lock Slider A.
- (9) Remove the fixing screw and remove the Lock Slider A.
- (10) Remove the stop washer of the Drive Changer Assembly and remove the torsion spring.
- (11) Remove the Drive Changer Assembly.
- (12) Disconnect the connector (6P) on the L-switch Assembly.
- (13) Remove the two fixing screws and remove the L-switch Assembly.

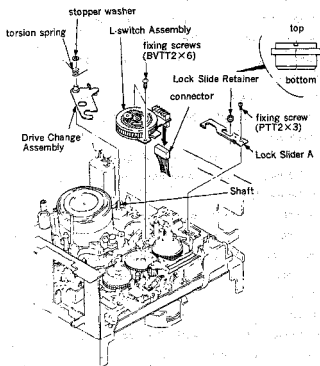


Fig. 1

Installation:

- (1) Replace the L-switch Assembly with a new one and apply a half drop of oil on the Planetary Roller Shaft.
- (2) Assemble the parts with Removal Steps (12) and (13) in reverse order.
- (3) Press the L-mode select button (right or left) of the Mode Selector and check that the L-switch Assembly rotates.
- (4) Apply a half drop of oil on the fixing shaft of the Drive Changer Assembly.
- (5) Smear Sony Grease to the U groove of the Drive Changer Assembly as shown in figure 2.
- (6) Assemble the parts with Removal Steps (10) and (11) in reverse order.
- (7) Press the L-mode select button (right or left) of the Mode Selector and check that the L-switch Assembly rotates.
- (8) Assemble the parts with Removal Steps (7) to (9) in reverse order.
- (9) Press the L-mode select button (right or left) of the Mode Selector so that the Planetary Roller Shaft is placed to the position shown in figure 3.
- (10) Assemble the parts with Removal Steps (1) to (6) in reverse order.

After replacement, perform the Tape Path Adjustment referring to Section 7-4.

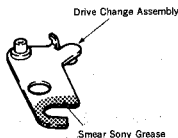


Fig. 2

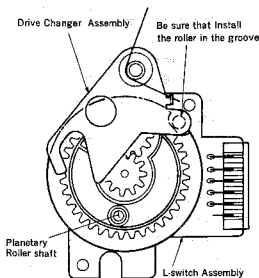


Fig. 3

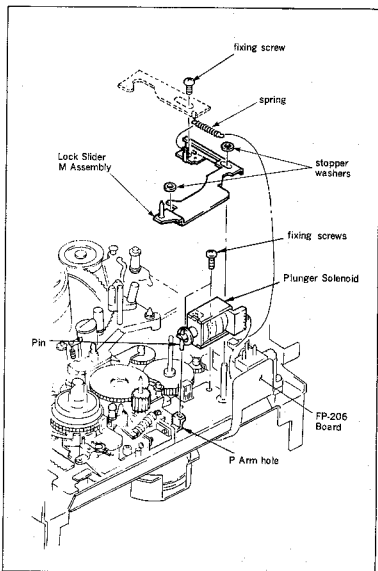
7-2-20. REPLACEMENT OF THE PLUNGER SOLENOID

Removal:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the spring which is hooked to the Lock Slider M Assembly.
- (4) Remove the two stopper washers.
- (5) Remove the fixing screw and remove the Lock Slider M Assembly.
- (6) Unsolder the three terminals of the Plunger Solenoid of the FP-206 Board.
- (7) Remove the two fixing screws and remove the Plunger Solenoid. (At this time, be careful not to damage the T Reel Assembly with a screwdriver, and do not touch it.)

Installation:

- (1) Replace the Plunger Solenoid with a new one.
- (2) Insert the pin of the Plunger Solenoid into the hole of the P Arm and install the new Plunger Solenoid with the two fixing screws. (At this time, be careful not to damage the T Reel Assembly with a screwdriver and do not touch it.)
- (3) Assemble the parts with Removal Steps (1) to (6) in reverse order.



7-2-21. REPLACEMENT OF THE M-SWITCH ASSEMBLY

Tools: Mode Selector (Ref. No. J-13)

Sony Oil

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Disconnect the connector (CN301) on the RS-31 Board.
- (3) Remove the T Reel Table Assembly referring to Section 7-2-14.
- (4) Remove the stopper washer and remove the Drive Gear B Assembly.
- (5) Remove the LD-1 Board. (fig. 1)
- (6) Remove the Lock Slider M Assembly referring to Removal Steps (3) to (5) of Section 7-2-20.
- (7) Remove the tension spring and remove the B Release Arm Assembly.
- (8) Check that the M-mode is put into **EJECT** mode.
- (9) Remove the stopper washer and remove the Mode Output Gear.
- (10) Release the two claws of the Control Motor Cover and remove the Push Switch.
- (11) Disconnect the connector (6P) on the M-switch Assembly.
- (12) Remove the two fixing screws and remove the Control Motor Cover L.
- (13) Remove the fixing screw and while lifting up the M-switch Assembly, push the T.S Release Arm in the direction of the arrow A. Then push the T Main Brake Assembly in the direction of the arrow B and remove the M-switch Assembly.

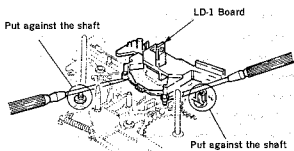


Fig. 1

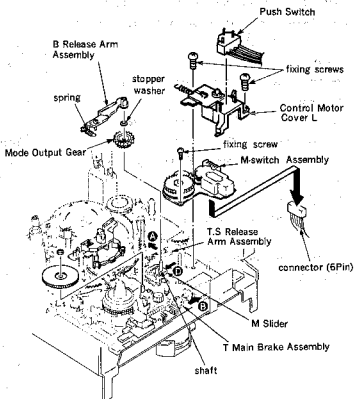


Fig. 2

How to remove the DC Motor

- (1) Unsolder the two terminals at the C points as shown in figure 3 and remove the DC Motor from the MS-4 Board. (fig. 3)

Installation:

- (1) Replace the M-switch Assembly with a new one.
- (2) Assemble the parts with Removal Steps (10) to (13) in reverse order.
- (3) Check that the mechanical block is put into **EJECT** mode.
- (4) Check that the M Slider moves fully in the direction of arrow D. (fig. 2)
- (5) Apply a half drop of oil on the shaft of the Mode Output Gear. (fig. 2)
- (6) Install the Mode Output Gear so that the center of the M-switch Assembly Gear and the two positioning holes are lined up. (fig. 4)
- (7) Install the stopper washer to the shaft of the Mode Output Gear.
- (8) Press the M-mode select button of the Mode Selector and set to the **LOADING/UNLOADING** mode.
- (9) Assemble the parts with Removal Steps (1) to (7) in reverse order.

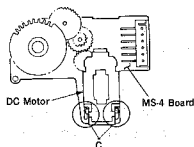


Fig. 3

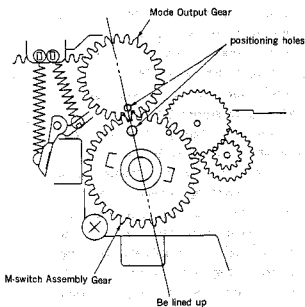


Fig. 4

7-2-22. REPLACEMENT OF THE M SLIDER

Tools: Mode Selector (Ref. No. J-13)

Sony Oil

Sony Grease

Removal:

- (1) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (2) Remove the Threading Ring Assembly referring to Section 7-2-4.
- (3) Remove the S Reel Table Assembly referring to Section 7-2-13.
- (4) Remove the T Reel Table Assembly referring to Section 7-2-14.
- (5) Remove the Pinch Press Arm Assembly referring to Section 7-2-15.
- (6) Remove the Tension Regulator Arm Assembly referring to Section 7-2-16.
- (7) Remove the Tension Regulator Band Assembly referring to Section 7-2-17.
- (8) Remove the Drive Gear (B) Assembly, LD-1 Board, Lock Slider M Assembly and B Release Arm Assembly referring to Removal Steps (2) to (7) of Section 7-2-21.
- (9) Remove the Tension Regulator Load Arm Assembly referring to Removal Step (11) of Section 7-2-18.
- (10) Remove the tension spring which is hooked to the S Main Brake Assembly.
- (11) Remove the two stopper washers and remove the S Main Brake Assembly and T Main Brake Assembly.
- (12) Operate the Mode Selector and set the L-mode to LOADING TOP mode and the M-mode to LOADING/UNLOADING mode.
- (13) Remove the fixing screw and remove the Drive Complete Assembly.
- (14) Remove the Mode Output Gear referring to Removal Steps (8) and (9) of Section 4-21.
- (15) Remove the two tension springs which are hooked to the REW Brake Assembly and B Release Slider.
- (16) Remove the REW Brake Assembly and remove the REW Brake Spacer.

- (17) Remove the stopper washer and remove the B Release Slider.
- (18) Remove the stopper washer and remove the Ring Lock Spring and RL Arm.
- (19) Move the M Slider to the right.
At this time, leave about 5mm space between the fixing shaft and left edge of M Slider's longitudinal hole.
- (20) Remove the E ring and remove the Pinch Press Lever Assembly.
- (21) Remove the tension spring and remove the Hard Brake S.
- (22) Remove the stopper washer and push the Mode Arm in the direction of the arrow. Lift up the left side of the M Slider to remove.

Installation:

- (1) Replace the M Slider with a new one and smear grease. (fig. 2)
- (2) Push the Mode Arm in the direction of the arrow, (fig. 1) While being careful to the positional relationship with other parts install the M Slider. Then install the stopper washer. (fig. 3)
- (3) Install the Hard Brake S and hook the tension spring to it.
- (4) Smear grease to the Pinch Press Lever Assembly. (fig. 4)
- (5) Apply a half drop of oil to the part under the groove of Pinch Press Lever Assembly's shaft.
- (6) Assemble the parts with Removal Steps (16) to (18) and (20) in reverse order.
- (7) Hook the two tension springs to the REW Brake Assembly and B Release Slider.

Note: Hook the two tension springs as follows and be careful not to mix them.

. B Release Slider Spring:
diameter 2 mm, wire diameter
0.18mm

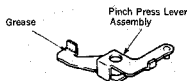
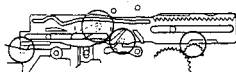
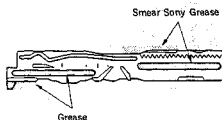
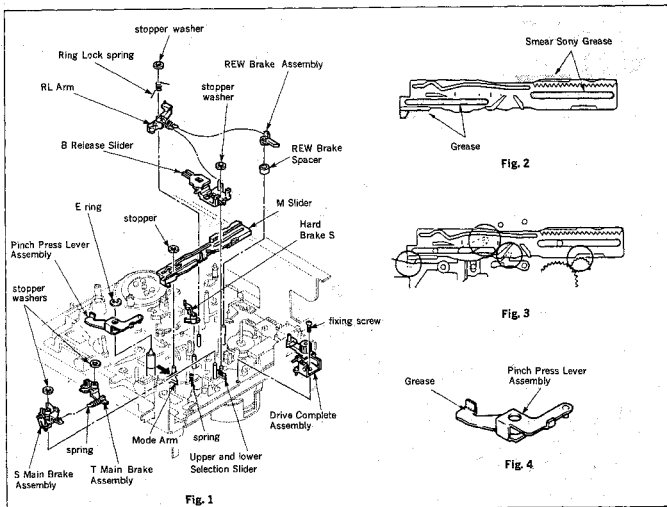
. REW Brake Assembly Spring:
diameter 1.5 mm, wire diameter
0.12mm

- (8) Move the M Slider to the left fully.
- (9) Press the M mode select button of the Mode Selector and set to **EJECT** mode.
- (10) Install the Mode Output Gear referring to Installation Steps (5) to (7) in Section 7-2-21.
- (11) Press the M mode select button of the Mode Selector and set to the **LOADING/UNLOADING** mode.

- (12) Insert the horizontal shaft of the Drive Complete Assembly into the groove of the Upper and Lower Selection Arm and tighten the fixing screw.

- (13) Assemble the parts with Removal Steps (1) to (11) in reverse order.

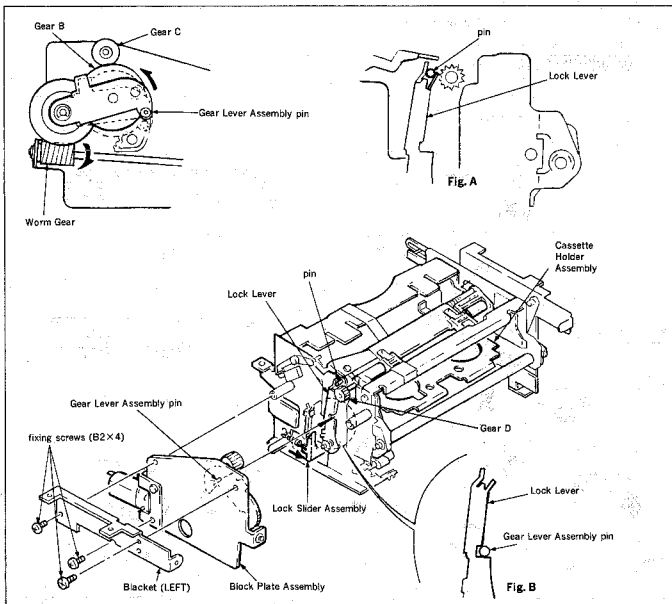
After replacement, perform the Tape Path Check referring to Section 7-4-6.



7-2-23. INSTALLATION OF THE BLOCK PLATE ASSEMBLY

When removing the Block Plate Assembly, installing procedures are as follows:

- (1) Push the Lock Slider Assembly in the direction of the arrow and lift the Cassette Holder.
- (2) Check that the positional relationship between the Lock Lever and pin is as shown in figure A.
- (3) Turn the Worm Gear in the direction of the arrow and engage the Gear B and Gear C.
- (4) While checking that positional relationship between the pin of the Gear Lever Assembly and Lock Lever is as shown in figure B, fix the Block Plate Assembly and Blacket (LEFT) with three fixing screws.
- (5) Check that the Gear C and D are engaged.

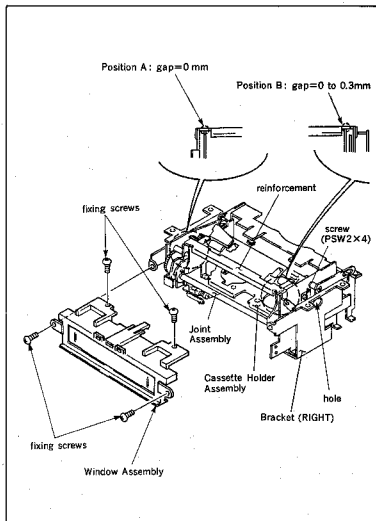


7-2-24. PARALLELISM ADJUSTMENT OF THE CASSETTE HOLDER BLOCK

When the following trouble happen, perform this adjustment. When inserting or ejecting the cassette, it is caught in the Cassette Holder Assembly or Joint Assembly, etc., and does not move smoothly.

Adjustment procedure:

- (1) Open the MB-19 Board referring to Section 2-8.
- (2) Remove the Cassette-up Compartment Assembly referring to Section 2-13.
- (3) Remove the four fixing screws and remove the Window Assembly.
- (4) Loosen the screw (PSW2 X 4) from the hole of the Bracket (RIGHT).
- (5) Push the bottom of the Cassette Holder Assembly against the reinforcement, and adjust the position so that there is no clearance at points A and B.
- (6) Tighten the screw (PSW2 X 4) and smear locking compound to it.
- (7) Assemble the parts with Steps (1) to (3) in reverse order.



7-3. TORQUE AND BACK TENSION ADJUSTMENT

After removing the Mechanical Deck and Cassette-up Compartment from the unit referring to Section 2-5 and 2-13, perform these adjustments except for Section 7-3-4.

7-3-1. CHECK OF THE MAIN BRAKE TORQUE

1. S Main Brake Torque

Tools: Mode Selector (Ref. No. J-13)

Tension Measurement Reel

(Ref. No. J-8)

Dial Tension Gauge (Ref. No. J-6)

Mode: Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.

Check Procedure:

- (1) Set the Tension Measurement Reel on the S Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Pull out the Dial Tension Gauge in the direction of the arrows and check that those readings meet the required specifications as shown in figure 1 and 2.

Note: Both S Main Brake and S Soft Brake work in the **FF/REW** mode.

Adjustment Procedure:

- (1) If the reading do not meet the required specification, replace the S Main Brake or S Reel Table Assembly.

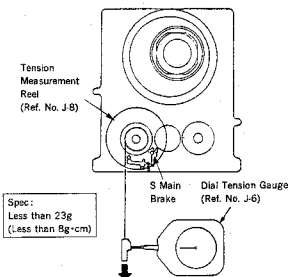


Fig. 1

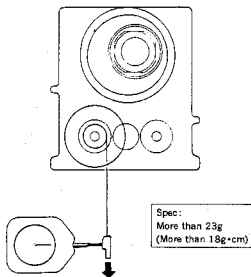


Fig. 2

2. T Main Brake Torque

Tools: Mode Selector (Ref. No. J-13)

Tension Measurement Reel

(Ref. No. J-8)

Dial Tension Gauge (Ref. No. J-6)

Mode: Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.

Check Procedure:

- (1) Set the Tension Measurement Reel on the T Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Pull out the Dial Tension Gauge in the direction of the arrows and check that these readings meet the required specifications as shown in figure 1 and 2.

Note: Both T Main Brake and REW Brake work in the **FF/REW** mode.

Adjustment Procedure:

- (1) If the reading do not meet the required specification, replace T Main Brake or T Reel Table.

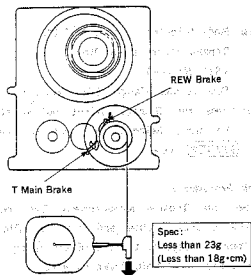


Fig. 1

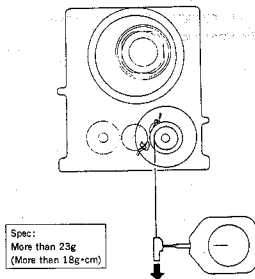


Fig. 2

7-3-2. CHECK OF THE SOFT BRAKE TORQUE

1. S Side Soft Brake Torque

Tools: Mode Selector (Ref. No. J-13)

Tension Measurement Reel

(Ref. No. J-8)

Dial Tension Gauge (Ref. No. J-6)

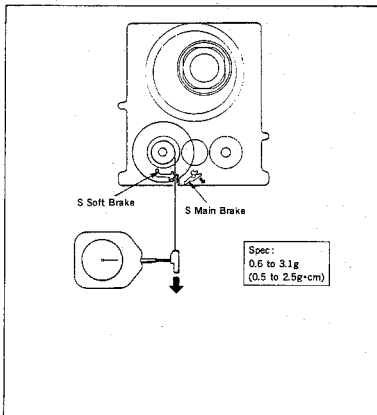
Mode: Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.

Check Procedure:

- (1) Set the Tension Measurement Reel on the S Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Release the S Main Brake by hand.
- (3) While releasing the S Main Brake, pull out the Dial Tension Gauge in the direction of the arrow. Check that this reading meets the required specification.

Adjustment Procedure:

- (1) Adjust the strength of S Soft Brake Spring by stretching or cutting.



2. T Side Soft Brake Torque

Tools: Mode Selector (Ref. No. J-13)
Tension Measurement Reel
(Ref. No. J-8)
Dial Tension Gauge (Ref. No. J-6)

Mode: Press the M-mode button of the Mode Selector and set to the **RVS** mode.

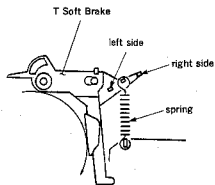
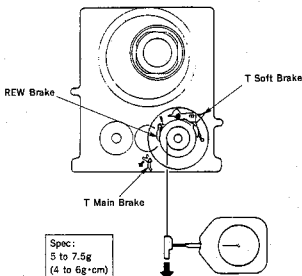
Check Procedures:

- (1) Set the Tension Measurement Reel on the T Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Release the T Main Brake by hand.
- (3) While releasing the S Main Brake, pull out the Dial Tension Gauge in the direction of the arrow. Check that this reading meets the required specification.

Note: Both T Soft Brake and REW Brake work in the RVS mode.

Adjustment Procedures:

- (1) Change the position of the tension spring which is hooked to the T Soft Brake.
 - . more than the spec. : Hook the left side.
 - . less than the spec. : Hook the right side.
- (2) If the reading do not meet the required specification with Step (1), replace the T Soft Brake or REW Brake, or both of them.



7-3-3. CHECK OF THE REW BRAKE TORQUE

Tools: Mode Selector (Ref. No. J-3)
Tension Measurement Reel
(Ref. No. J-8)

Dial Tension Gauge (Ref. No. J-6)

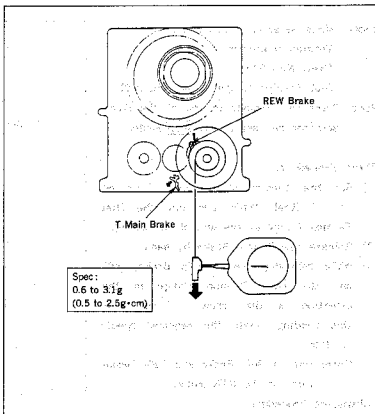
Mode: Press the M-mode select button of the Mode Selector and set to the **FF/REW** mode.

Check procedure:

- (1) Set the Tension Measurement Reel on the T Reel Table and put the Dial Tension Gauge at the end of the string.
- (2) Release the T Main Brake by hand.
- (3) While releasing the T Main Brake, pull out the Dial Tension Gauge in the direction of the arrow. Check that this reading meet the required specification.

Adjustment Procedure:

- (1) Adjust the strength of the tension spring by stretching or cutting, or replace the REW Brake with a new one.



7-3-4. CHECK BY THE FWD, RVS TAKE-UP TORQUE CASSETTE

Tool: FWD, RVS take-up torque cassette
(Ref. No. J-12)

Mode: PLAY mode

Check Procedure:

- (1) Insert the FWD, RVS take-up torque cassette in the unit.
- (2) Put the unit into the PLAY mode, check that the torque reading of the T Reel Table meets the required specification.
Spec. : 9.5 to 15.5 g·cm
- (3) Put the unit into the PLAY mode and press the REW button. Immediately check that the torque reading of the S Reel Table meets the required specification.

Spec. : 17 to 23 g·cm

Adjustment procedure:

- (1) If the readings do not meet the required specifications, replace each Reel Table Assembly.

7-3-5. FWD BACK TENSION ADJUSTMENT

Tools: Mode Selector (Ref. No. J-13)
Tension Measurement Reel
(Ref. No. J-7)
Dial Tension Gauge (Ref. No. J-6)

Mode: Press the L-mode select button of the Mode Selector and set to the **LOADING END**. Press the M-mode select button and set to the **FWD** mode.

Check Procedure:

- (1) Remove the Cassette-up Compartment referring to Section 2-13.
- (2) Press the L-mode select button of the Mode Selector and set to the **LOADING END** mode. Press the M-mode select button and set to the **FWD** mode.
- (3) Loosen the fixing screw and move the Band Adjustment Plate in the direction of the arrow A. Check the possible movement range θ of the No. 1 Guide.
- (4) Tighten the fixing screw where the No. 1 Guide Cap is positioned at one-third of θ .
- (5) Set the Tension Measurement Reel on the S Reel Table and trail the tape along the No. 1 Guide, No. 2 Guide, No. 3 Guide, IP Roller Guide and Drum.
- (6) Put the Dial Tension Gauge at the end of the tape. Pull out the Dial Tension Gauge at a contact speed approx. 15cm/sec. in the direction of the arrow B. At this time, check that this reading meets the required specification.

Spec. : 12 to 14 g

Adjustment Procedure:

- (1) If the reading do not meet the required specification, change the position of the tension spring which is hooked to the Tension Regulator Spring Hook Assembly.
 - . more than the Spec. :
the direction of the arrow C
 - . less than the Spec. :
the direction of the arrow D

NOTE:

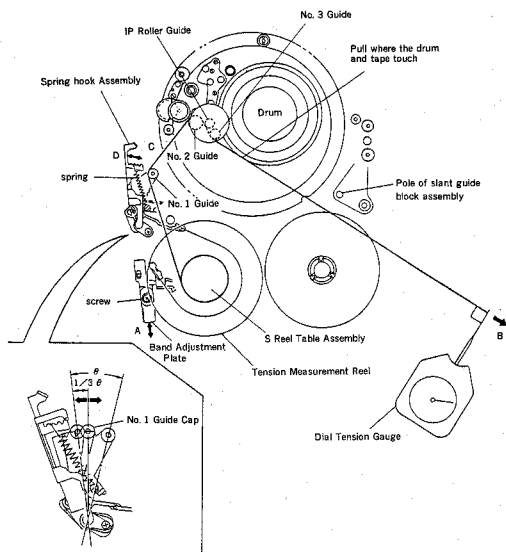
When replacing the parts as follows, perform the FWD Back Tension Adjustment.

- . Tension Regulator Band Assembly
- . S Reel Table Assembly
- . Entrance Guide (P) Assembly

When replacing these parts, perform the free running in the FWD mode for two minutes and then adjust the FWD Back Tension.

Adjustment Procedure:

- (1) Install the Cassette-up Compartment Assembly with Removal Steps Section 2-13 in reverse order.
- (2) Install the Mechanical Deck with Removal Steps Section 2-5 in reverse order.
- (3) Insert the cassette tape in the unit and perform the FWD running for two minutes.
- (4) Eject the cassette tape.
- (5) Remove the Mechanical Deck from the unit referring to Section 2-5.
- (6) Perform the FWD Back Tension Adjustment referring to Section 7-3-5.



7-4. TAPE PATH ADJUSTMENT

After check that the Electrical Adjustments (Sections 8) are completed, perform this adjustment.

Alignment Information

Track Shift Tool

The 8 mm Video System employs a high precision tracking ATF (Auto Track Finding) system which instantaneously controls the tape running speed with four kinds of pilot signals. In this way, the Tracking Adjustment Knob is unnecessary and it is possible to trace with accuracy. On the other hand, the adjustment of the Tape Path System was difficult in the ATF system. It was impossible to adjust perfectly because the ATF system automatically corrected even it small miss-tracking occurs. Then the Track Shift Tool (Ref. No. J-14) is used in the adjustment of Tape Path System. The Track Shift Tool can forcibly release the ATF system and can easily adjust the Tape Path System by setting the tracking amount (track shift) manually.

7-4-1. CONNECTION OF THE TRACK SHIFT TOOL

Use the connection cords (Ref. No. J-15 and J-16) for connection. Connect the Track Shift Tool and the unit as shown in figure 1.

. RF/SWP connector ...

to CN004 on the FR-40 Board

. CTL connector ...

to CN906 on the SE-10 Board

(Please refer to operation manual of the Track Shift Tool for details.)

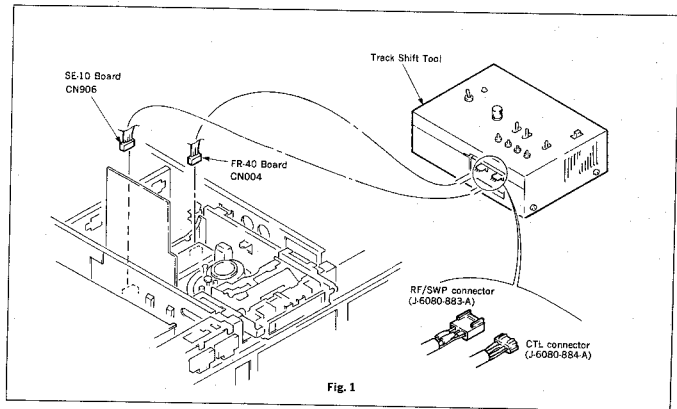
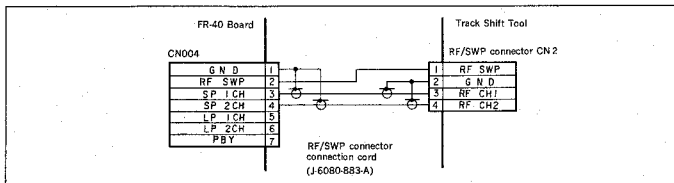


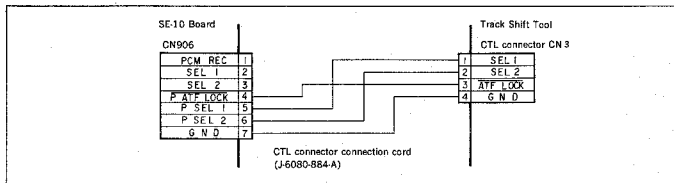
Fig. 1

[Designated Connecting Cord]

- RF/SWP connector connection cord
(Part No. J-6080-883-A)



- CTL connector connection cord
(Part No. J-6080-884-A)



[Setting of the Switches]

SEL switch

When performing the track shift, set the switch to ON. When setting to OFF, the unit side controls.

PATTERN switch

Set to EV side.

ATF ADJ

Set to OFF side.

When adjusting EVO-9500, the other switches are not used.

7-4-2. PREPARATION FOR ADJUSTMENT

Tools: Track Shift Tool (Ref. No. J-14)
RF/SWP connector (Ref. No. J-15)
CTL connector (Ref. No. J-16)
Oscilloscope
Alignment tape for tracking
(WR5-1NP) (Ref. No. J-5)

- (1) Clean the tape path surface (the individual tape guides, drum, capstan shaft and pinch roller).

- (2) Connection of the oscilloscope
1CH:CH2 checking pin of the Track Shift Tool

EXT TRIG:RF SWP checking pin of the Track Shift Tool

- (3) Set the SEL switch of the Track Shift Tool to OFF and play back the alignment tape for tracking (WR5-1NP). Check that the RF waveforms of both entrance and exit sides are flat. (fig. 1 ㉔) If the RF waveforms of both sides are not flat, adjust them as follows.

. In case of the RF waveform at the entrance side is not flat. (fig. 1 ㉕)

... Perform entrance Side Adjustment referring to Section 7-4-4.

. In case of the RF waveform at the exit side is not flat. (fig. 1 ㉖)

... Perform Exit Side Adjustment referring to Section 7-4-5.

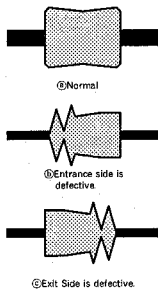


Fig. 1

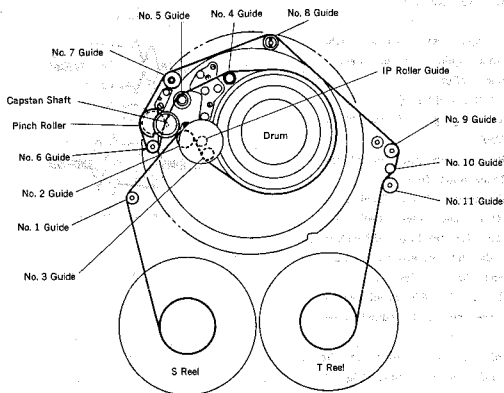
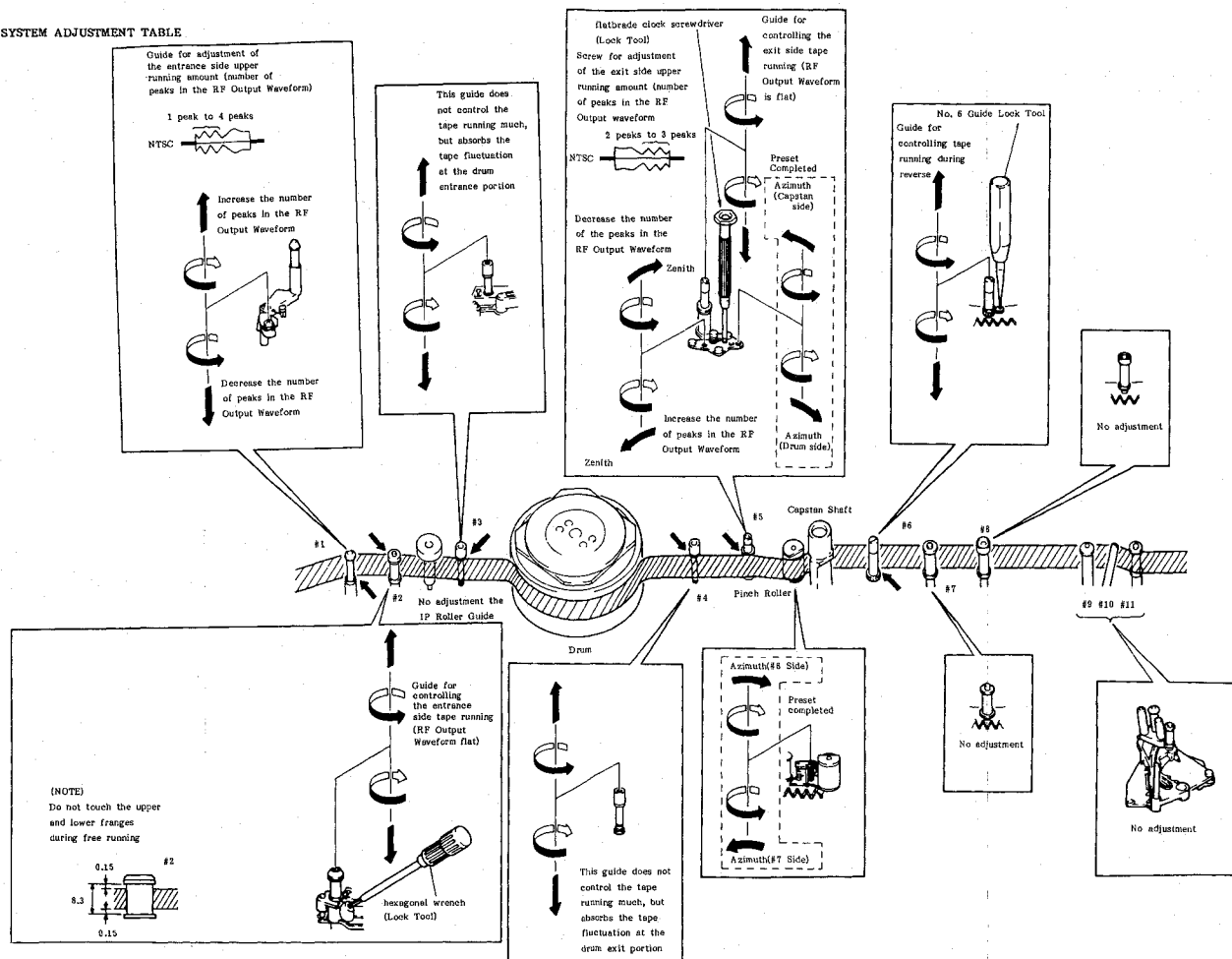
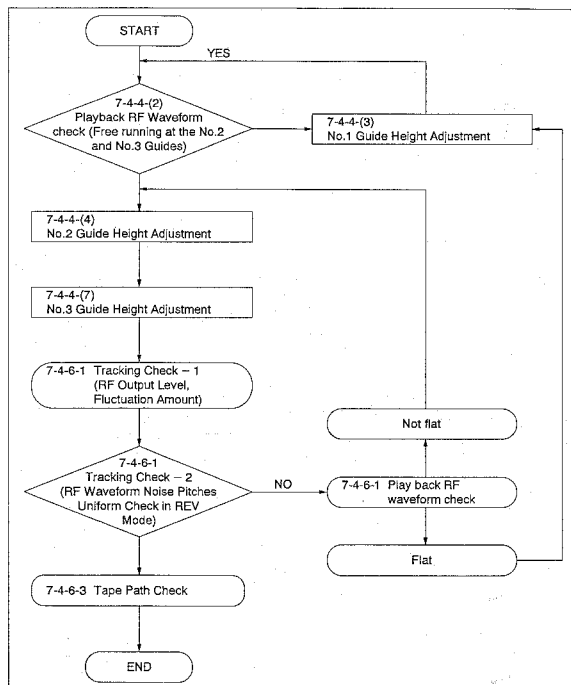


Fig. 2 Tape Guide Arrangement Diagram

7-4-3. TAPE PATH SYSTEM ADJUSTMENT TABLE



7-4-4. Tape Entrance Side Adjustment
Flow Chart of Adjustment



Mode: Playback the alignment tape
Tools: Alignment tape for tracking
(WR5-1NP) (Ref. No. J-5)
Oscilloscope
Track Shift Tool (Ref. No. J-14)
RF/SWP connector (Ref. No. J-15)
CTL connector (Ref. No. J-16)
Hexagonal screwdriver (across flat
has 0.89 mm) (Ref. No. J-17)
Small adjustment mirror (Ref. No.
J-4)

Preparation:

- (i) Remove the Top Plate referring to Section 2-1.
- (ii) Open the MB-19 Board referring to Section 2-3.
- (iii) Connect the Track Shift Tool and oscilloscope to the unit referring to Sections 7-4-1 and 7-4-2.
- (iv) Playback the alignment tape.

Procedure:

- (1) Remove the Fly Wheel referring to Section 7-2-1.
- (2) Loosen the No. 2 Guide Lock Screw and turn the No. 2 and No. 3 Guides counterclockwise to free the tape path at the entrance side. (fig. 1 and 2)

Note: The space between upper and lower flanges of the No. 2 Guide is narrow. Therefore, then check that the tape is not touch the upper and lower flanges. If loosen the No. 2 Guide too much, the tape touches the lower flange and the RF waveform at the entrance side exceeds the original free waveform.

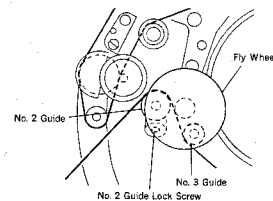


Fig. 1

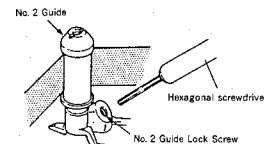


Fig. 2

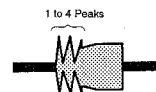


Fig. 3

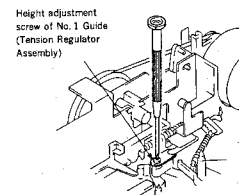


Fig. 4

- (3) Check that the RF waveform at the entrance side has 1 to 4 peaks in this condition. If not, adjust as follows. (fig. 3)

• less than 1 peak

Turn and adjust the height adjustment screw of the No. 1 Guide (Tension Regulator Arm Assembly) clockwise 90 degrees step. (fig. 4)

• more than 4 peaks

Turn and adjust the height adjustment screw counterclockwise 90 degrees step. (fig. 4)

- (4) Turn slowly the No. 2 Guide clockwise so that flatten the waveform at the entrance side. (fig. 5)

Note: At this time, do not turn the No. 2 Guide too much.

- (5) Set the SEL switch of the Track Shift Tool to ON. Turn the Track Shift Knob and set the amplitude of the RF waveform to two-third position. (fig. 6)
- (6) Turn the No. 2 Guide and raise the entrance side waveform slightly. (fig. 7)
- (7) Flatten the waveform with the No. 3 Guide. (fig. 8)
- (8) Tighten the lock screw of the No. 2 Guide. (fig. 2)
- (9) Smear locking compound to the No. 1 Guide Height Adjustment Screw and top portion of the No. 3 Guide.
- (10) Install the Fly Wheel referring to Section 7-2-1.

Note: After adjustment, perform Check After Adjustment referring to Section 7-4-6.

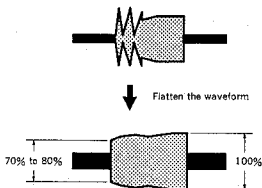


Fig. 5

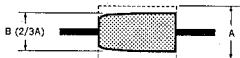
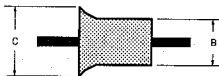


Fig. 6



$$C = 1.15B \text{ to } 1.25B$$

Fig. 7

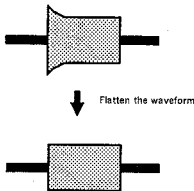
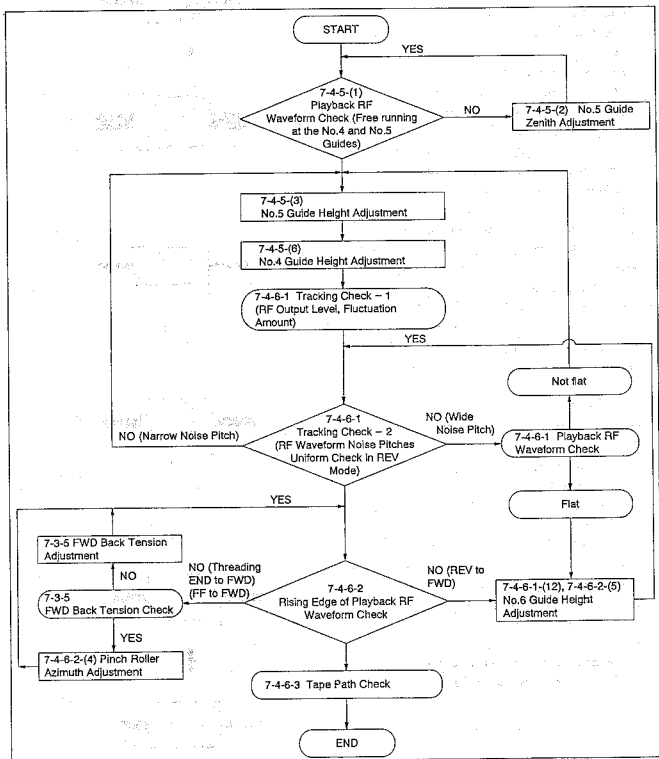


Fig. 8

7-4-5. Tape Exit Side Adjustment
Flow Chart of Adjustment



Mode: Play back the alignment tape

Tools: Alignment tape for tracking
(WR5-1NP) (Ref. No. J-5)
Oscilloscope

Track Shift Tool (Ref. No. J-14)
RF/SWP connector (Ref. No. J-15)
CTL connector (Ref. No. J-16)
Hexagonal screwdriver (across flat
has 0.89 mm) (Ref. No. J-17)
Small adjustment mirror (Ref. No.
J-4)

Preparation:

- (i) Remove the Top Plate referring to Section 2-1.
- (ii) Open the MB-19 board referring to Section 2-8.
- (iii) Connect the Track Shift Tool and oscilloscope to the unit referring to Sections 7-4-1 and 7-4-2.
- (iv) Play back the alignment tape.

Procedures:

- (1) Turn the No. 4 and No. 5 Guides counterclockwise to free the tape path at the exit side. (fig. 1)

Note: If the No. 5 Guide nut is not loosen because of locking compound, dissolve locking compound with alcohol. Check that the tape does not touch the lower flange of the No. 5 Guide in free running.

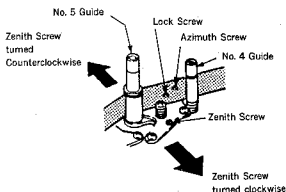


Fig. 1

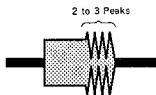


Fig. 2

- (2) Check that the RF waveform at the exit side has 2 to 3 peaks in this condition. If not, adjust as follows. (fig. 2)

• Turn and loosen the lock screw counterclockwise.

• less than 2 peaks

Turn and adjust slowly the zenith screw clockwise 45 degrees step.

• more than 3 peaks

Turn and adjust slowly the zenith screw of the No. 5 Guide counterclockwise 45 degrees step.

After adjustment, tighten the lock screw clockwise.(fig. 1)

Note: If tighten the lock screw too strongly, the waveform will change. Tighten suitably the lock screw. Never turn the azimuth screw of the No. 5 Guide.

- (3) Turn the No. 5 Guide clockwise and flatten the RF waveform at the exit side. (fig. 3)

Note: At this time, the waveform reaction is slow against the nut rotation. After checking that the waveform variation is stabilized, turn the nut more.

- (4) Set the SEL switch of the Track Shift Tool to ON. Turn the Track Shift Knob and set the amplitude of the RF waveform to two-third position. (fig. 4)

- (5) Turn the No. 5 Guide and raise the exit side waveform slightly. (fig. 5)

- (6) Turn the No. 4 Guide and flatten the waveform. (fig. 6)

- (7) Smear locking compound to the lock screw, zenith screw and top portions of the No. 4 Guide and No. 5 Guide.

Note: After adjustment, perform Check After Adjustment referring to Section 7-4-6.

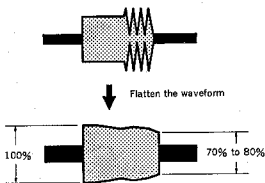


Fig. 3

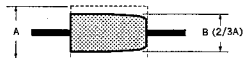


Fig. 4

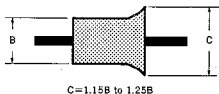


Fig. 5

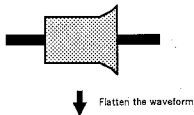


Fig. 6

7-4-5. CHECK AFTER ADJUSTMENT

Tool: No. 6 Guide Lock Screwdriver (Ref. No. J-10)

Alignment tape for tracking
(WR5-1NP) (Ref. No. J-5)

1. Video Tracking Check

- (1) Play back the alignment tape for tracking.
- (2) Set the SEL switch of the Track Shift Tool to ON. Turn the Track Shift Knob and set the amplitude of the RF waveform to two-third position. (fig. 1)
- (3) In this time, check that the amplitude minimum value (E. MIN) of the RF waveform is more than 75% of maximum value (E MAX). (fig. 2)
- (4) In this time, check that the fluctuation amount of the RF waveform at entrance and exit sides meet the required specification as shown in figure. 3.
- (5) Set the SEL switch of the Track Shift Tool to OFF.
- (6) Set to the REV mode and check that the noise pitches of the waveform are uniform. (fig. 4) If not, adjust as follows.

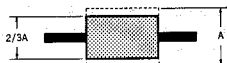


Fig. 1

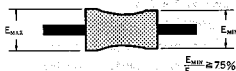


Fig. 2

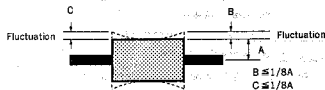


Fig. 3

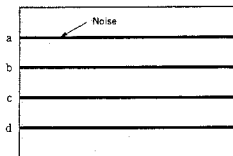
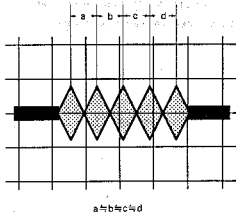


Fig. 4

When the Noise pitch is narrow at the entrance side (upper of screen). (fig. 5)

- (7) Check that the RF waveform is flat in the PLAY mode.
- (8) Perform the height adjustment of the No. 1 Guide referring to Section 7-4-4.

Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.

When the RF waveform is not flat.

- (9) Perform the height adjustment of the No. 2 and No. 3 Guides referring to Section 7-4-4.

Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.

When the noise pitch is narrow at the exit side (lower of screen). (fig. 6)

- (10) Set to PLAY mode and perform the height adjustment of the No. 4 and No. 5 Guides referring to Section 7-4-5. After adjustment, perform the Tracking Check referring to Section 7-4-6-1 and check that it meet the required specification.

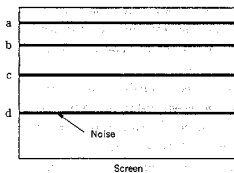
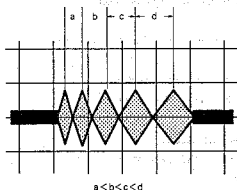


Fig. 5

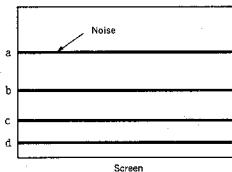
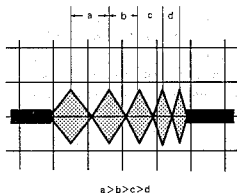


Fig. 6

When the noise pitch is wide at the exit side (lower of screen), (fig. 7)

- (11) Set to PLAY mode and check that the RF waveform is flat.
- (12) Turn and loosen the Guide Lower Gear counterclockwise with the No. 6 guide lock tool, (fig. 8)
- (13) Turn the No. 6 Guide and perform the height adjustment.

Note: At this time, if the No. 6 Guide is raised too much, the wrinkles may occur between the Capstan Shaft and No. 5 Guide (A portion). Check that the wrinkles are not occur. (fig. 9)

- (14) Turn and *lock the Guide Lower Gear clockwise with the NO. 6 guide lock tool.

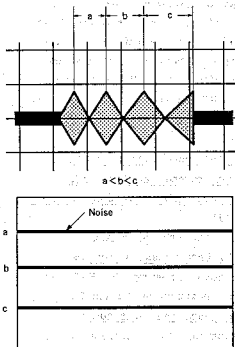
*Touch the Guide Lower Gear against the lower flange of the No. 6 Guide and turn it more about 10 degrees.

Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.

When the waveform is not flat.

- (15) Perform the height adjustment of the No. 4 and No. 5 Guides referring to Section 7-4-5.

Note: After adjustment, perform the Tracking Check referring to Section 7-4-6-1.



Screen

Fig. 7

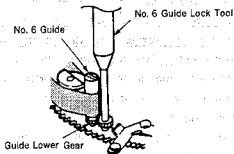


Fig. 8

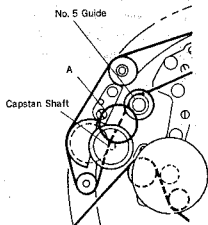


Fig. 9

2. Rising Edge of Waveform Check

- (1) Check that the RF waveform rises horizontally (flat waveform) in playback after threading is completed, playback after CUE/REV or FF mode. If the RF waveform do not rise horizontally (flat waveform), adjust as follows.

In case of the noise occurs at the exit side (lower of screen) at the rising edge of the playback, after threading is completed, (fig. 11)

- (2) Check that the FWD Back Tension.

When the FWD Back Tension is too low.

- (3) Adjust again referring to FWD Back Tension Adjustment of Section 7-3-5.

When the FWD Back Tension is normal.

- (4) While adjusting the waveform at the rising edge of the playback, turn the azimuth screw of the Pinch Roller clockwise about 5 degrees step. Then check the rising edge of waveform.

In case of the noise occurs at the exit side (lower of screen) at the rising edge of the playback after REV mode. (fig. 11)

- (5) Turn and loosen the Guide Lower Gear counterclockwise with No. 6 guide lock tool. (fig. 8)

- (6) Turn the No. 6 Guide and perform the height adjustment.

Note: At this time, if the No. 6 Guide is raised too much, the wrinkles may occur between the Capstan Shaft and No. 5 Guide(A portion). Check that the wrinkles are not occur. (fig. 9)

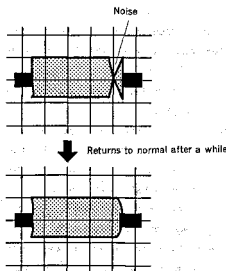


Fig. 11

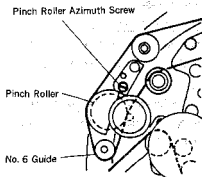


Fig. 12

In case of the noise occurs at the exit side (lower of screen) at the start of the playback after FF mode, (fig. 11)

(7) Check that the FWD Back Tension.

When the FWD Back Tension is too low,

(8) Adjust again referring to FWD Back

Tension Adjustment of Section 7-3-5.

When the FWD Back Tension is normal,

(9) While adjusting the waveform at the rising edge of the playback, turn the azimuth screw of the Pinch Roller clockwise about 5 degrees step. Then check the rising edge of waveform. (fig. 12)

Note: After adjustment, be sure to check that waveform again at the rising edge of the playback after threading is completed.

3. Tape Running Check

Check the tape running at the flange of the Guides (shown by arrows) in PLAY and REV modes.

No. 1 Guide ... Tape runs in contact with upper or lower flange. If tape curl exist, less than 0.3mm at the tape curl is acceptable.

No. 3 Guide ... Tape runs in contact with upper or lower flange without curl.

No. 4 Guide ... Tape runs in contact with upper flange. If tape curl exists, less than 0.5mm of tape curl is acceptable.

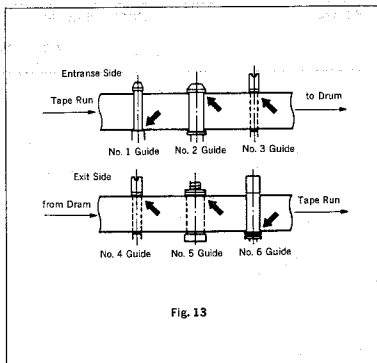


Fig. 13

SECTION 8

ELECTRICAL ADJUSTMENT

8-1. POWER SUPPLY ALIGNMENT

8-1-1. Equipment Required

- Digital voltmeter

8-1-2. +5V Adjustment

Machine condition for adjustment	Specifications	Adjustments
• STANDBY mode	CN101-2/IF-20 (J-1) $5.4 \pm 0.1\text{Vdc}$	RV203/ POWER BLOCK (B-1)

8-1-3. REG +5V Adjustment

Machine condition for adjustment	Specifications	Adjustments
• E-E mode	CN101-5/IF-20 (J-1) $5.2 \pm 0.1\text{Vdc}$	RV202/ POWER BLOCK (D-1)

8-1-4. REG +9V Adjustment

Machine condition for adjustment	Specifications	Adjustments
• E-E mode	CN101-10/IF-20 (J-1) $9.0 \pm 0.1\text{Vdc}$	RV201/ POWER BLOCK (D-1)

8-2. SERVO SYSTEM ALIGNMENT

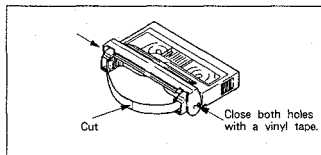
8-2-1. Equipment Required

- Oscilloscope
- Frequency counter
- Digital voltmeter
- Alignment tape

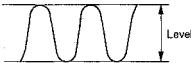
Name (Part No.)	REC mode	Tape Type	Tape Speed	Contents	
				Video Area	PCM Area
SP operation check WR5-8NSE (8-967-995-43)	Hi8	ME	SP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) 400 Hz 20 min.
LP operation check WR5-8NLE (8-967-995-52)	Hi8	ME	LP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) 400 Hz 40 min.

- Empty cassette (See below.)

1. Draw out a tape and cut it.
2. Cover two holes on both side of the cassette with a vinyl tape.

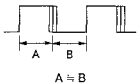


8-2-2. DS Clock Check

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • STOP mode 	TP107/SE-10 (C-5)  Level=more than 2.5 Vp-p Frequency=3578756 ± 300 Hz	

8-2-3. Capstan FG Duty Adjustment

Remove the Bottom Plate and open the HK-4 Board for this adjustment. If it does not meet the specification, remove the mechanical deck and adjust again.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none">• Connect each TP001 AND TP002 on the SE-10 board to ground with jumper wires.• Insert the empty cassette tape and put the machine into the play back mode.• After adjustment, remove the jumper wires.	TP105/SE-10 (D-4)  $A \approx B$	RV801/MD-23 (D-3)

8-2-4. Reel FG Adjustment

Remove the mechanical deck for this adjustment.

Connect only CN907 on the SE-10 Board.

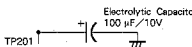
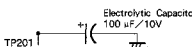
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none">• Play back the alignment tape WR5-8NLE.	TP901/MD-23 (G-1) $21 \pm 1 \text{ Hz}$	RV901/MD-23 (G-1)
<ul style="list-style-type: none">• Perform confirmation while playing back the alignment tape WR5-8NLE.	TP902/MD-23 (E-1) $1.0 \text{ through } 1.4 \text{ Vdc}$	
<ul style="list-style-type: none">• Perform confirmation while playing back the alignment tape WR5-8NLE with CUE (× 9) mode. CUE (× 9): While pressing the PB button, press the FF button on the MB-19 Board.	TP901/MD-23 (G-1) $37 \text{ through } 50 \text{ Hz}$ TP902/MD-23 (E-1) $1.4 \text{ through } 1.9 \text{ Vdc}$	

Note: After adjustment, install the mechanical deck.

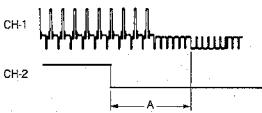
8-2-5. Drum Free Speed Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none">• VIDEO IN: No signal• Use the Hi8 MP tape.• REC mode	TP101/SE-10 (D-6) $1.9 \pm 0.1 \text{ Vdc}$	RV102/SE-10 (E-6)

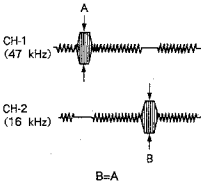
8-2-6. Capstan Free Speed Adjustment

Machine condition for adjustment	Specifications	Adjustments
Step 1 (SP mode) <ul style="list-style-type: none"> Connect TP201/SE-10 (H-3) to ground with electrolytic capacitor (100 μF/10V) during STOP mode.  <ul style="list-style-type: none"> Connect TP002/SE-10 (D-6) to ground with jumper wire during STOP mode. Play back the alignment tape WR5-8NSE. After adjustment, remove the jumper wire and capacitor. 	TP105/SE-10 (D-4) $960 \pm 1 \text{ Hz}$	⚙️ RV106/SE-10 (D-5)
Step 2 (LP mode) <ul style="list-style-type: none"> Connect TP201/SE-10 (H-3) to ground with electrolytic capacitor (100 μF/10V) during STOP mode.  <ul style="list-style-type: none"> Connect TP002/SE-10 (D-6) to ground with jumper wire during STOP mode. Connect pin 4 of CN901/SE-10 (A-5) to ground with jumper wire during STOP mode. Play back the alignment tape WR5-8NSE. After adjustment, remove the jumper wire and capacitor. 	TP105/SE-10 (D-4) $480 \pm 1 \text{ Hz}$	⚙️ RV105/SE-10 (D-5)

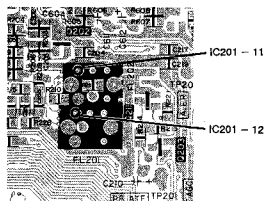
8-2-7. Switching Position Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color bar signal portion of the alignment tape WR5-8NSE. 	CH-1: TP701/HK-4(H-2) CH-2: TP103/SE-10 (F-3)  $A = 6.5 \pm 0.3H$	⚙️ RV101/SE-10 (C-6) Trigger: TP301/SE-10 (F-3)

8-2-8. ATF BPF Balance Adjustment

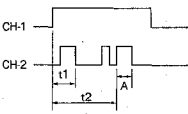
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Connect TP208/SE-10 (H-3) to ground with jumper wire. VIDEO IN : color-bar signal Perform the self-recording /play back with a Hi8 ME tape. After adjustment, remove the jumper wire. 	<p>CH-1: IC201-12/SE-10 (G-4) CH-2: IC201-11/SE-10 (G-4)</p>  <p style="text-align: center;">B=A</p>	<p>RV201/SE-10 (G-4)</p>

Note: It is difficult to connect the IC201-11 and IC201-12.
The substitutive positions of these pins described below.



* Open the SE-10 board.

8-2-9. STILL Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN : color-bar signal Perform the self-recording/play back with a Hi8 ME tape. Put the unit into the PAUSE mode and measure the pulse width of A portion. Advance one frame and perform adjustment if the pulse width of A is narrow. If it is wide, advance the frame for one more frame and perform adjustment by observing narrower pulse width. 	<p>CH-1: TP103/SE-10 (F-3) CH-2: TP204/SE-10 (F-5)</p>  <p style="text-align: center;">t1=4.0 ± 0.1msec t2=11.4 ± 0.1msec</p>	<p>t1 RV203/SE-10 (H-3)</p> <p>t2 RV204/SE-10 (H-3)</p> <p>Trigger: TP103/SE-10 (F-3)</p>

8-2-10. SP Slow Adjustment

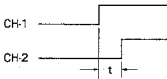

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN : color-bar signal • Using P6-120MPN tape, perform the short recording of the color-bar signal at the end of tape. • Connect TP001/SE-10 (C-2) to ground with jumper wire. • Playback the recorded portion with SLOW ($\times 1/5$ speed) mode. • When the noise appears on the monitor screen, adjust RV104 temporarily. • When the noise appears on the monitor screen, adjust RV104 so that noise at the bottom of the screen disappears. • After adjustment, remove the jumper wire. 	<p>CH-1: TP103/SE-10 (F-3) CH-2: TP105/SE-10 (D-4)</p> <p>t=minimum</p>	<ul style="list-style-type: none"> ● RV304/SE-10 (E-2) ● RV104/SE-10 (D-5) <p>Trigger: TP302/SE-10 (F-3)</p>

8-2-11. LP Slow Adjustment


Note: This adjustment should be performed after completion of "8-2-10. SP SLOW ADJUSTMENT".

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect pin 4 of CN901/SE-10 (A-5) to ground with jumper wire. • VIDEO IN : color-bar signal • Perform the a short recording of the color-bar signal at the end of P6-120N tape. • Connect TP001/SE-10 (C-2) to ground with jumper wire. • Playback the recorded portion with SLOW ($\times 1/5$ speed). • After adjustment, remove jumper wires. 	Adjust RV103 so that the noise at the bottom of the screen disappears.	<ul style="list-style-type: none"> ● RV103/SE-10 (E-5)

8-2-12. SP Slow fh Adjustment

Machine condition for adjustment	Specifications	Adjustments
Step 1 <ul style="list-style-type: none"> Perform the short recording of the color-bar signal with a Hi8 ME tape. Play back the recorded portion with SLOW ($\times 1/30$ speed). SLOW ($\times 1/30$ speed): Short-circuit pin 5 of CN901/SE-10 (A-5) to ground for one second with 6.2kΩ resistor. 	CH-1: TP103/SE-10 (F-3) CH-2: TP102/SE-10 (D-5)  $t=580 \pm 10 \mu\text{sec}$	● RV301/SE-10 (F-1)
Step 2 <ul style="list-style-type: none"> Perform the short recording of the color-bar signal with a Hi8 ME tape. Play back the recorded portion with SLOW ($\times 1/5$ speed). SLOW ($\times 1/5$ speed): Press SLOW button or short-circuit pin 5 of CN901/SE-10 (A-5) to ground for one second with 3.6kΩ resistor. 	TP301/SE-10 (E-2)  $V=3.9 \pm 0.1\text{Vdc}$	● RV303/SE-10 (E-1)

8-2-13. LP Slow fh Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Connect pin 4 of CN901/SE-10 (A-5) to GND with jumper wire. (LP mode) Perform the short recording of the color-bar signal with a Hi8 ME tape. Play back the recorded portion with SLOW ($\times 1/5$ speed). 	CH-1: TP103/SE-10 (F-3) CH-2: TP102/SE-10 (D-5)  $t=580 \pm 10 \mu\text{sec}$	● RV302/SE-10 (F-2)

8-2-14. Slow Tracking Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the color-bar signal portion of alignment tape WRS-8NSE with SLOW mode. • Turn RV001/FB-169 (J-3) and stops where at the center click position. 	<p>W002-10/FB-169 (E-3)</p> <p>$2.5V \pm 0.1 Vdc$</p> <p>After the adjustment, turn RV001/FB-169 (J-3) and confirm the voltage whether varies.</p>	<p>● RV002/FB-169 (J-3)</p>

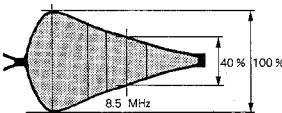
8-3. VIDEO SIGNAL SYSTEM ALIGNMENT

8-3-1. Equipment Required

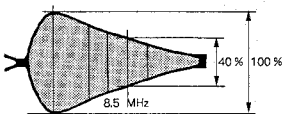
- Oscilloscope
- Frequency counter
- Test signal generator
- Vectorscope
- Vectorscope
- Sweep generator

Name (Part No.)	REC mode	Tape Type	Tape Speed	Contents	
				Video Area	PCM Area
Video freq. resp. WR5-7NE (8-967-995-13)	Hi8	ME	SP	RF sweep 0 to 15 MHz Marker: 2.0 MHz 4.5 MHz 7.0 MHz 8.5 MHz 10.0 MHz	
SP operation check WR5-5NSP (8-967-995-42)	STD	MP	SP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) Monoscope Section 20 Hz 20 sec. 400 Hz 20 sec. 14 kHz 20 sec. Color-Bar Section 1 kHz 4 min.
SP operation check WR5-8NSE (8-967-995-43)	Hi8	ME	SP		AUDIO SIGNAL (PCM) 400 Hz 20 min.
LP operation check WR5-8NLE (8-967-995-52)	Hi8	ME	LP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	

8-3-2. SP PB Frequency Response Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Play back the alignment tape WRS-7NE. 	CN004-3/FR-40 (A-2)  2 MHz 8.5 MHz=40% (in reference to 2 MHz)	● RV004/RP-73 (SP) Trigger: CN004-2/FR-40 (A-2)
	CN004-4/FR-40 (A-2) 8.5 MHz=40% (in reference to 2 MHz)	● RV003/RP-73 (SP) Trigger: CN004-2/FR-40 (A-2)

8-3-3. LP PB Frequency Response Adjustment

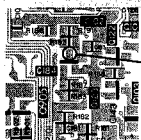
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect TP104/SE-10 (D-4) to ground with jumper wire. • Play back the alignment tape WRS-7NE. • After adjustment, remove a jumper wire. 	CN004-5/FR-40 (A-2)  2 MHz 8.5 MHz=40% (in reference to 2 MHz)	● RV004/RP-73 (LP) Trigger: CN004-2/FR-40 (A-2)
	CN004-6/FR-40 (A-2) 8.5 MHz=40% (in reference to 2 MHz)	● RV003/RP-73 (LP) Trigger: CN004-2/FR-40 (A-2)

8-3-4. Flying Erase Confirmation

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN : color-bar signal Use a Hi8 ME tape. REC mode 	TP041/FR-40 (C-1) $7.9 \pm 0.5 \text{ MHz}$	

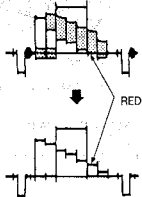
8-3-5. SubCarrier Frequency Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: no signal PB mode 	Q184-collector/HK-4 (F-4) $3579545 \pm 30 \text{ Hz}$	● CV601/HK-4 (B-3)




Q184-Collector


8-3-6. PB C Comb Filter Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Supply the composite color-bar signal (Y=0.5 Vp-p, burst=0.143 Vp-p) to CN911-4/HK-4 (H-2). E-E mode 	IC501-26/HK-4 (B-2)  <p>Minimize residual chroma component at RED portion (30 mVp-p or less)</p>	● RV502/HK-4 (A-3) ● LV501/HK-4 (B-3)


8-3-7. SYNC AGC Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	TP402/HK-4 (E-3)  $A = 0.50 \pm 0.02 \text{ Vp-p}$	● RV302/HK-4 (D-1)


8-3-8. AGC Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	TP301/HK-4 (B-3)  $A = 0.50 \pm 0.02 \text{ Vp-p}$	● RV405/HK-4 (D-3)


8-3-9. Video Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	TP303/HK-4 (E-1)  $A = 1.00 \pm 0.05 \text{ Vp-p}$	● RV301/HK-4 (E-1)


8-3-10. STD Mode PB Y Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WR5-5NSP. 	TP302/HK-4 (D-3)  $A = 0.50 \pm 0.02 \text{ Vp-p}$	● RV304/HK-4 (E-2)

8-3-11. PB De-emphasis Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WR5-5NSP. 	TP302/HK-4 (D-3)  100% white level=makes flat	Ⓐ RV304/HK-4 (E-2)


8-3-12. Hi8 Mode PB Y Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WR5-8NSE. 	TP302/HK-4 (D-3)  $A = 0.50 \pm 0.02 \text{ Vp-p}$	Ⓐ RV305/HK-4 (E-2)

8-3-13. STD Mode Y FM Carrier Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: no signal Use a P6-MP series tape. E-E mode 	IC401-14/HK-4 (D-2) $4.40 \pm 0.02 \text{ MHz}$	Ⓐ RV402/HK-4 (D-2)


8-3-14. STD Mode Y FM Deviation Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal Perform the self-recording/play back with a P6-MP series tape. 	TP302/HK-4 (D-3)  $A = 0.50 \pm 0.02 \text{ Vp-p}$ <ul style="list-style-type: none"> Repeat recording and play back several times until the level meets the specification. Adjust the RV403 during recording. 	Ⓐ RV403/HK-4 (D-2) When turning in the clockwise direction, the level decreases.

8-3-15. Hi8 Mode Y FM Carrier Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: no signal • E-E mode 	TP401/HK-4 (C-3) $6.00 \pm 0.02 \text{ MHz}$	⚙ RV401/HK-4 (D-2)

8-3-16. Hi8 Mode Y FM Deviation Adjustment

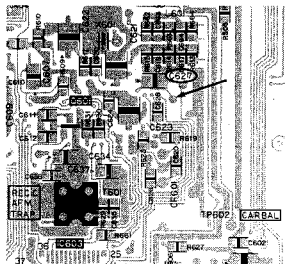
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • Perform the self-recording/play back with a Hi8 ME tape. 	TP302/HK-4 (D-3)  $A = 0.50 \pm 0.02 \text{ Vp-p}$ <ul style="list-style-type: none"> • Repeat recording and play back several times until the level meets the specification. Adjust RV404 during recording. 	⚙ RV404/HK-4 (D-2) When turning in the clockwise direction, the level decreases.

8-3-17. 378fH VCO Adjustment


Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN: color-bar signal • E-E mode • Solder the jumper wire to the position described below. Connect the voltmeter at the end of jumper wire. • After adjustment, remove the jumper wire. 	IC602-26/HK-4 (B-4) $3.0 \pm 0.1\text{Vdc}$	⚙️ RV601/HK-4 (A-4)

Note: It is difficult to connect to 26 pin of IC602 because it is under the oscillator. The substitutive position is described below.


HK-4 Board (A-4)




8-3-18. Chroma Emphasis fo Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Connect pin 47 of IC602 to TP902/HK-4 (F-5) via 10 k ohm resistor. Connect pin 47 of IC602 to ground via 10 k ohm resistor. VIDEO IN: color-bar signal E-E mode After adjustment, remove the resistor. 	<p>IC601-11/HK-4 (A-5)</p>  <p>C (chroma component)=minimum</p>	<p>● T602/HK-4 (A-6)</p>


8-3-19. Carrier Balance Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WR5-8NSE. 	TP602/HK-4 (A-5)  A (4.32 MHz component)=minimum	⚙ RV602/HK-4 (A-5)

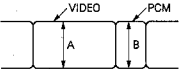
8-3-20. REC Y RF Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: no signal Use a P6-MP tape E-E mode 	TP201/HK-4 (D-6)  $A=0.62 \pm 0.02$ Vp-p	⚙ RV202/HK-4 (D-5)

8-3-21. REC C RF Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Perform following connections. Q211-emitter (D-5) ↔ TP902/HK-4 (F-5) CN101-3 (C-6) ↔ ground Q608-emitter (B-6) ↔ ground VIDEO IN: color-bar signal E-E mode After adjustment, remove the jumper wires. 	TP201/HK-4 (D-6) RED  $A=100 \pm 10$ mVp-p	⚙ RV201/HK-4 (C-5)

8-3-22. SP REC Current Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • VIDEO IN : 50% white signal • Use a Hi8 ME tape • REC mode 	<p>TP001/FR-40 (A-1)</p>  <p>A (VIDEO)=180 ± 10 mV B (PCM)=180 ± 10 mV</p>	<p>VIDEO</p> <ul style="list-style-type: none"> ● RV001/RP-73 (SP) <p>PCM</p> <ul style="list-style-type: none"> ● RV002/RP-73 (SP) <p>Trigger: CN004-2/FR-40</p>

Note: LP REC CURRENT ADJUSTMENT (RV001, RV002) is unnecessary.

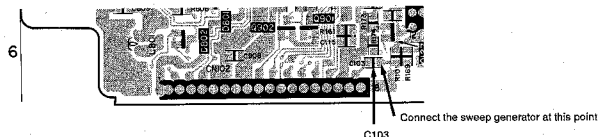
8-3-23. DOC Level Adjustment

Step 1.

Note: Remove C103 on the HK-4 Board (F-6) for this adjustment. Use the sweep generator and put the marker in the 5 MHz portion. Adjust the level of marker to the level described below steps with variable volume of the sweep generator. After adjustment, solder the chip capacitor (0.047 μ F) to C103 on the HK-4 Board (F-6). Be sure to use the new capacitor. (1-163-035-00)

Connect the output of sweep generator to the point of HK-4 Board after removing C103 as described below.

HK-4 soldering side



Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal. Adjust the marker level of the sweep generator to meet the specification. E-E mode 	<p>IC501-17/HK-4 (B-2)</p>	<p>RV101/HK-4 (F-5)</p>


- After adjustment, remove the sweep generator and solder chip capacitor to C103.

Step 2.


Use the oscilloscope in this adjustment.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Supply the composite color-bar signal (Y=0.5 Vp-p, Burst=0.143 Vp-p, chroma OFF) to CN911-4 pin on the HK-4 Board (H-2). 	<p>IC501-12/HK-14 (B-2)</p> <p>A=0 \pm 15 mVp-p</p>	<p>RV501/HK-4 (A-2)</p>


8-3-24. E-E Y Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	TP701/HK-4 (H-2)  $A = 1.00 \pm 0.05 \text{ Vp-p}$	⚙ RV702/HK-4 (H-2)


8-3-25. E-E C Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	TP801/HK-4 (H-4)  $A = 286 \pm 10 \text{ mVp-p}$	⚙ RV802/HK-4 (H-5)

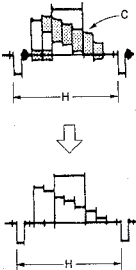
8-3-26. JOG Direct Y Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WR5-8NSE. PAUSE mode 	TP701/HK-4 (H-2)  $A = 1.00 \pm 0.05 \text{ Vp-p}$	⚙ RV701/HK-4 (G-2)


8-3-27. JOG Direct C Signal Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of the alignment tape WR5-8NSE. PAUSE mode 	TP801/HK-4 (H-4)  $A = 286 \pm 10 \text{ mV}$	⚙ RV801/HK-4 (G-5)

8-3-28. Chroma Cancel (1H) Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color bar signal E-E mode 	TP203/IF-20 (A-2)  C (residual chroma component)=minimum Level=less than 25 mvp-p	<ul style="list-style-type: none"> RV201/IF-20 (B-1) LV201/IF-20 (B-1)

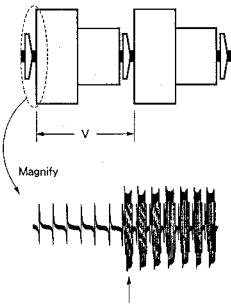
8-3-29. Chroma Cancel (2H) Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color bar signal E-E mode 	TP207/IF-20 (C-2)  A=less than 20 mVp-p	<ul style="list-style-type: none"> RV204/IF-20 (C-2) LV202/IF-20 (C-1)


8-3-30. DC Offset Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: no signal E-E mode 	+: TP208/IF-20 (C-3) -: TP209/IF-20 (C-3) $100 \pm 10 \text{ mVp-p}$	<ul style="list-style-type: none"> RV205/IF-20 (C-3)


8-3-31. C Comb Cancel Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	<p>TP206/IF-20 (B-6)</p>  <p>Magnify</p> <p>Adjust this level and level at right side equally.</p>	<p>RV203/IF-20 (B-2)</p>


8-3-32. Ys Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	<p>TP204/IF-20 (A-3)</p>  <p>$A = 0.5 \pm 0.02 V_{p-p}$</p>	<p>RV202/IF-20 (A-3)</p>

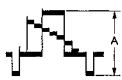
8-3-33. Noise Cancel +6 dB Amplifier Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of alignment tape WR5-8NSE. 	CH-1: TP602/IF-20 (D-5) CH-2: TP604/IF-20 (D-4)  Peak level B $\times 2$ = Peak level A	● RV601/IF-20 (D-5)


8-3-34. Limiter Cancel Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color-bar signal portion of alignment tape WR5-8NSE. 	TP603/IF-20 (E-5)  A (burst portion) = minimum	● RV602/IF-20 (E-4)

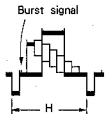
8-3-35. Y Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color bar signal portion of the alignment tape WR5-8NSE. 	TP651/DI-11 (K-4)  A = 1.0 ± 0.1 Vp-p	● RV651/DI-11 (K-4)

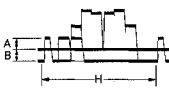
8-3-36. CNR Chroma Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the color bar signal portion of the alignment tape WR5-8NSE. 	TP652/DI-11 (J-3)  $A = 0.286 \pm 0.01 \text{ Vp-p}$	⚙ RV652/DI-11 (J-4)



8-3-37. Yx Filter DIP Point Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Disconnect CN901/IF-20 (C-5) and input the color-bar signal of 50 mVp-p burst at pin 1 of CN901. PLAY mode Turn RV706/IF-20 (G-5) fully counterclockwise. 	TP705/IF-20 (G-5) Burst signal  Turn RV702 and RV703 alternately and minimize the burst level.	⚙ RV702/IF-20 (H-5) ⚙ RV703/IF-20 (I-5)

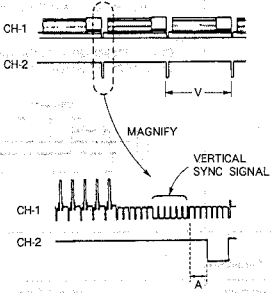
8-3-38. Yx Filter C Control Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode Set CH-1 and CH-2 of oscilloscope ranges equally. 	<p>Step 1 CH-1: TP709/IF-20 (G-5) (AC range) CH-2: TP709/IF-20 (G-5) (AC range)</p> <p>Align the CH-1 and CH-2 waveforms.</p> <p>Step 2 CH-1: TP709/IF-20 (G-5) (DC range) CH-2: TP711/IF-20 (G-5) (DC range)</p>  <p>$4:6 \leq A:B \leq 6:4$</p>	<p>RV706/IF-20 (G-5)</p>

8-3-39. Video Output Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	<p>TP706/IF-20 (I-4)</p>  <p>$A=1.0 \pm 0.05 \text{ Vp-p}$ $B=0.286 \pm 0.02 \text{ Vp-p}$</p>	<p>RV704/IF-20 (I-5) RV705/IF-20 (I-5)</p>
	<p>TP712/IF-20 (J-4)</p>  <p>$A=1.0 \pm 0.05 \text{ Vp-p}$ $B=0.286 \pm 0.02 \text{ Vp-p}$</p>	<p>RV707/IF-20 (J-4) RV708/IF-20 (J-5)</p>

8-3-40. REF V Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> VIDEO IN: color-bar signal E-E mode 	<p>CH-1: TP204/IF-20 (A-3) CH-2: IC903 PIN 7/IF-20 (D-2)</p>  <p>$A = 134.7 \pm 5.0 \mu\text{sec}$</p>	<p>RV901/IF-20 (B-5)</p>

8-3-41. Picture Splitting Adjustment

Machine condition for adjustment	Specifications	Adjustments
	Set RV802 and RV803 on the MD-23 board to the mechanical center position.	<p>RV802/MD-23 (A-2) RV803/MD-23 (A-2)</p>

8-4. AUDIO SIGNAL SYSTEM ALIGNMENT

8-4-1. Equipment Required

- Oscilloscope
- Frequency counter
- Audio signal generator
- Audio level meter
- Digital voltmeter
- Alignment tape

Name (Part No.)	REC mode	Tape Type	Tape Speed	Contents	
				Video Area	PCM Area
SP operation check WR5-8NSE (8-967-995-43)	Hi8	ME	SP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) 400 Hz 20 min.
LP operation check WR5-8NLE (8-967-995-52)	Hi8	ME	LP	VIDEO SIGNAL Color-bar 4 min. Monoscope 4 min. AUDIO SIGNAL (AFM) 400 Hz 60% mod.	AUDIO SIGNAL (PCM) 400 Hz 20 min.

8-4-2. PCM Master Clock Adjustment

Note: Before adjustment, remove the PA-27 board.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect pin 14 of IC853/PD-19 (A-1) and pin 11 of CN852/PD-19 (A-2) with jumper wire. • E-E mode • After the adjustment, remove jumper wire. 	IC853-8/PD-19 (A-1) $11.45 \pm 0.01 \text{ MHz}$	⚙ RV851/PD-19 (A-2)

8-4-3. PCM Playback VCO Free-Frequency Adjustment

Note: Before adjustment, remove the PA-27 board.

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> • Connect pin 9 of CN851/PD-19 (B-1) and pin 11 of CN852/PD-19 (C-3) with jumper wire. • Connect pins 7 and 8 of CN852/PD-19 (C-3) with jumper wire. • E-E mode • After the adjustment, remove jumper wires. 	IC854-8/PD-19 (A-2) $11.58 \pm 0.05 \text{ MHz}$	⚙ RV854/PD-19 (A-2)

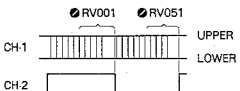
8-4-4. D/A Converter Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the Audio 400 Hz portion of the alignment tape WR5-8NSE. 	CN001-16/PA-27 (A-2) $-4.0 \pm 0.2 \text{ dBs}$	Ⓐ RV032/PA-27 (A-1)

8-4-5. NR Decode Level Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Play back the Audio 400 Hz portion of the alignment tape WR5-8NSE. 	CN001-20/PA-27 (A-3) $-14.0 \pm 0.5 \text{ dBs}$ <ul style="list-style-type: none"> If adjustment value doesn't meet the specification, change the value of resistors as follows and perform adjustment again. R062 12k \rightarrow 13k R012 12k \rightarrow 13k 	Ⓐ RV031/PA-27 (C-1)

8-4-6. A/D Converter Offset Adjustment

Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> Connect pin 8 of CN001/PA-27 (A-2) to pin 17 of CN001/PA-27 (A-2) with jumper wire. Connect pins 15 and 18 of CN001 with jumper wire. Connect pins 4 and 5 of CN001 with jumper wire. REC mode (no signal input) After adjustment, remove jumper wires. 	CH-1: CN001-11/PA-27 (A-2) CH-2: CN001-9/PA-27 (A-2)  Adjust upper and lower brightnesses for the same.	L-CH Ⓐ RV001/PA-27 (B-2) R-CH Ⓐ RV051/PA-27 (B-1)

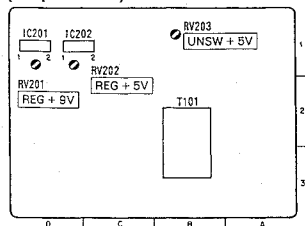
8-4-7. PCM REC Level Adjustment

Note: This adjustment should be performed after completion of 9-4. NR DECODED LEVEL ADJUSTMENT.

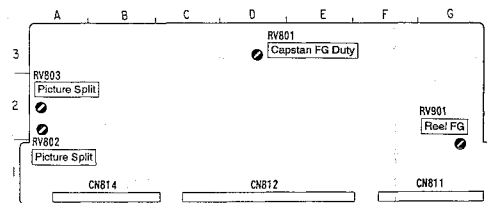
Machine condition for adjustment	Specifications	Adjustments
<ul style="list-style-type: none"> AUDIO LINE IN: 400 Hz/-10 dB Perform the self-recording/play back with a Hi8 ME tape. 	L-CH: CN001-20/PA-27 (A-3) $-13.5 \pm 0.1 \text{ dB}$	L-CH Ⓐ RV002/PA-27 (B-3)
	R-CH: CN001-1/PA-27 (A-1) $-13.5 \pm 0.1 \text{ dB}$	R-CH Ⓐ RV052/PA-27 (B-1)

8-5. ADJUSTMENT RELATED PARTS ARRANGEMENT DIAGRAMS

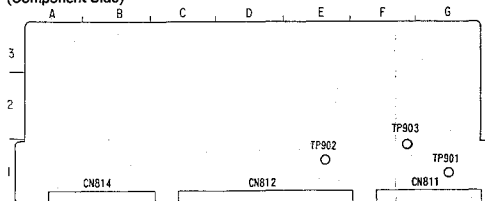
RV's on the Power Supply Block Location
(Component Side)



RV's on the MD-23 Board Location
(Component Side)



TP's on the MD-23 Board Location
(Component Side)



TP's on
(Component Side)



RV's on
(Component Side)

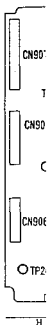


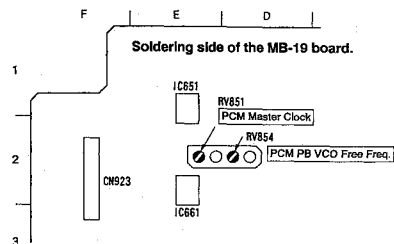
Figure 1 is a schematic diagram of a building floor plan, showing the locations of various components. The plan is divided into a grid with columns labeled H, G, F, E, D, C, B, and A from left to right, and rows labeled 1, 2, 3, 4, 5, and 6 from bottom to top. Components are marked with circles (TP) and rectangles (CN).

The components are distributed as follows:

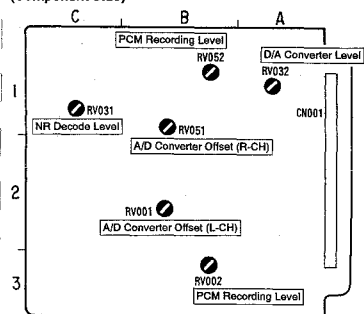
- Row 1:** TP202 (H), CN004 (G), TP206 (F), CN906 (G), IC203 (F), TP208 (F), CN905 (G), TP201 (F), TP203 (G).
- Row 2:** TP302 (F), IC201 (F), TP103 (F), TP104 (D), TP106 (D), IC106 (D), TP105 (D), TP108 (D), TP107 (D), TP001 (C), TP207 (C), CN904 (B), CN903 (A).
- Row 3:** TP301 (D), IC602 (D), TP104 (D), TP106 (D), IC106 (D), TP105 (D), TP108 (D), TP107 (D), TP001 (C), TP207 (C), CN904 (B), CN903 (A).
- Row 4:** TP106 (D), IC106 (D), TP105 (D), TP108 (D), TP107 (D), TP001 (C), TP207 (C), CN904 (B), CN903 (A).
- Row 5:** TP108 (D), TP107 (D), TP001 (C), TP207 (C), CN904 (B), CN903 (A).
- Row 6:** TP101 (D), TP002 (D), TP102 (D), TP108 (D), TP107 (D), TP001 (C), TP207 (C), CN904 (B), CN903 (A).

Additional components include CN003 (G), TP601 (F), CN002 (D), CN001 (A), and CN907 (H).

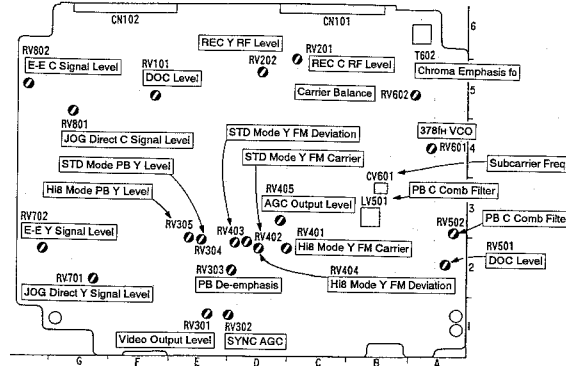
RV's on the PD-19 Board Location



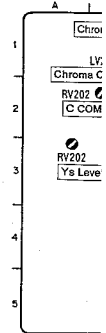
RV's on the PA-27 Board Location (Component Side)



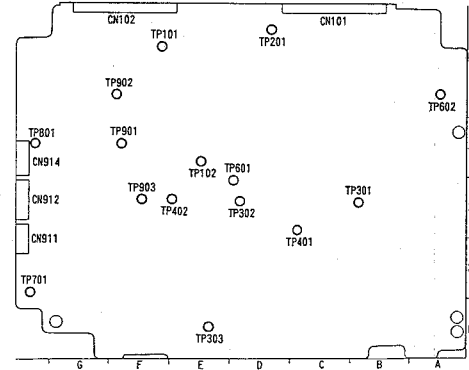
RV's on the HK-4 Board Location
(Component Side)



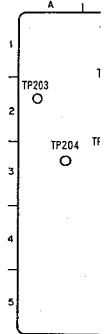
RV's on the IF-
(Component S



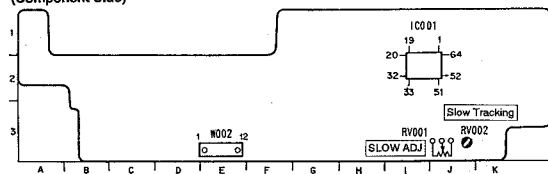
TP's on the HK-4 Board Location
(Component Side)



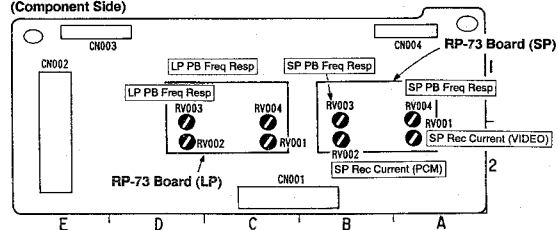
TP's on the IF-
(Component S



**RV's on the FB-169 Board Location
(Component Side)**



**RV's on the FR-40 Board Location
(Component Side)**



**TP's on the FR-40 Board Location
(Component Side)**

